## SITE DEVELOPMENT PLANS

PREPARED FOR

# NORTHERN PASS TRANSMISSION, LLC PROPOSED TRANSITION STATION #6

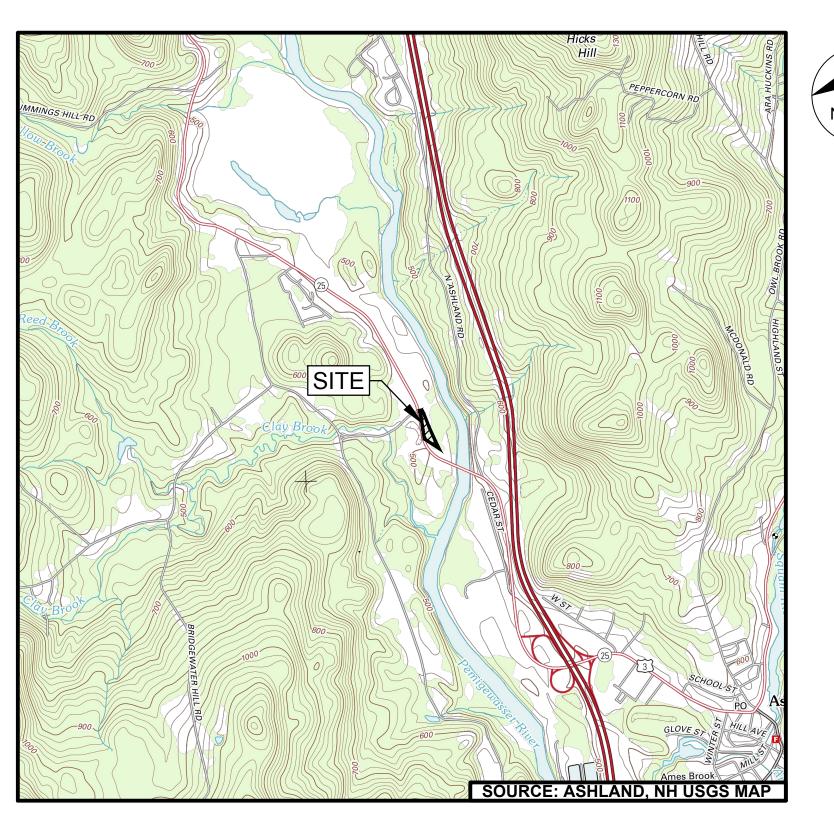
DANIEL WEBSTER HIGHWAY, BRIDGEWATER, NH 03264

**OWNER:** 



**ENGINEER:** 





**VICINITY MAP** 

**OCTOBER 1, 2015** 

**FOR PERMITTING PURPOSES ONLY** NOT FOR CONSTRUCTION

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NEW HAMPSHIRE STATE LAW REQUIRES HOMEOWNERS AND CONTRACTORS TO CONTACT DIG SAFE, BY DIALING 8-1-1 AT LEAST THREE BUSINESS DAYS BEFORE BEGINNING ANY DIGGING OR EXCAVATION PROJECT. WHEN DIG SAFE A CALL, THE HOMEOWNER OR CONTRACTOR MUST WAIT 72 BUSINESS HOURS. DURING THIS TIME, UTILITY REPRESENTATIVES RESPOND TO MARK THEIR LINES WITHIN YOUR PRE-MARKED AREA. ALL INFORMATION REGARDING DIG SAFE RULES AND REGULATIONS CAN ALSO BE FOUND AT www.digsafe.com.



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#### **BACKGROUND NOTES:**

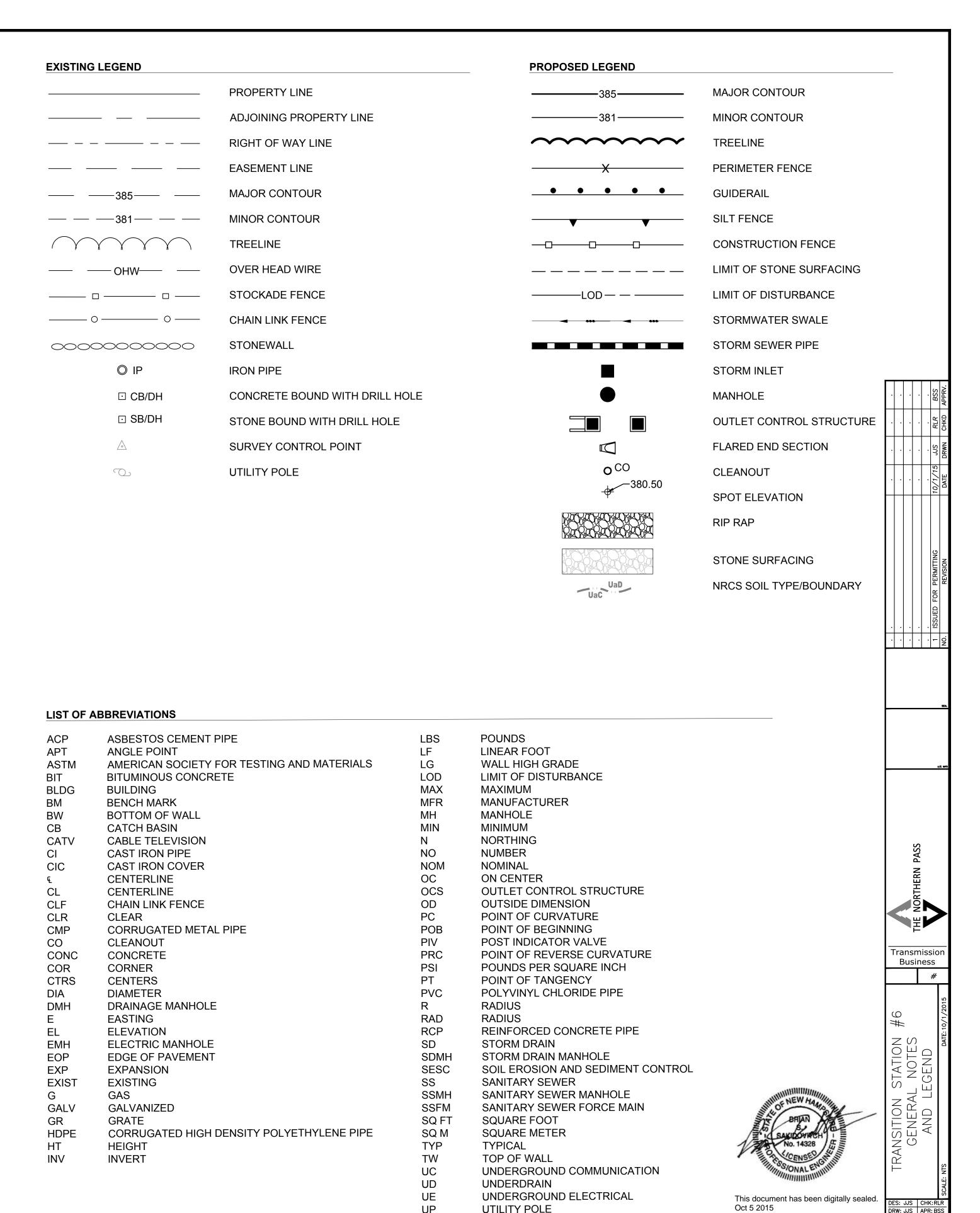
- 1. BACKGROUND INFORMATION TAKEN FROM "EXISTING CONDITIONS PLAN" FOR TRANSITION STATION #6, DANIEL WEBSTER HIGHWAY, BRIDGEWATER, NH. PREPARED BY CHA, CONSULTING, INC. DATED MAY 19, 2015. LAST REVISED MAY 19, 2015. SURFACE OBSERVABLE INFORMATION SHOWN HEREON IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY CHA, CONSULTING INC. IN MAY, 2015. THERE ARE NO WETLAND FLAGS SHOWN HEREON SINCE NO WETLANDS, STREAMS OR VERNAL POOLS WERE IDENTIFIED DURING A FIELD INVESTIGATION PERFORMED BY NORMANDEAU ON APRIL 27, 2015
- 2. ELEVATIONS, CONTOURS AND BENCHMARKS ARE BASED ON NAVD 1988 VERTICAL DATUM.
- 3. HORIZONTAL LOCATIONS ARE BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM NAD 83.
- 4. THE SITE IS LOCATED WITHIN ZONE 'X' FLOOD ZONE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP NUMBER 33009C1010E PANEL 1010 OF 1185, GRAFTON COUNTY, NH, DATED FEBRUARY 20, 2008.
- 5. PROPERTY AREA = 2.07AC, NPDES/LIMIT OF DISTURBANCE (LOD) AREA TOTAL = 1.49-ACRES (OF WHICH 1.40-ACRES IS ON-SITE, 0.09-ACRES IS OFF-SITE IN THE DANIEL WEBSTER HIGHWAY).

#### **GENERAL NOTES:**

- 1. GENERAL NOTES SHALL APPLY TO THE SITE DEVELOPMENT PLANS THROUGHOUT. REFER TO INDIVIDUAL SHEETS FOR SHEET SPECIFIC NOTES.
- 2. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
- 3. ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE CONTENT OF THE EXISTING CONDITIONS PLAN INCLUDING BUT NOT LIMITED TO LOCATION, SIZE, AND ELEVATIONS OF UTILITIES AND STRUCTURES NOT VISIBLE AND WHERE TAKEN FROM PLANS BY OTHERS.
- 4. EXISTING CONDITIONS SURVEY INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "DIGSAFE" PRIOR TO COMMENCEMENT OF WORK AT "811" AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
- 5. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE AND BUILDING CONDITIONS IN THE FIELD AND CONTACT THE OWNER AND ENGINEER IF THERE ARE ANY QUESTIONS AND/OR CONFLICTS REGARDING THE SITE DEVELOPMENT PLANS AND/OR EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION. REFER TO THE PROJECT SPECIFICATIONS MANUAL FOR ADDITIONAL INFORMATION. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, INFORM THE OWNER AND CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- 6. ALL CONSTRUCTION SHALL COMPLY WITH PROJECT SPECIFICATION MANUAL, EVERSOURCE STANDARDS AND SPECIFICATIONS, AND THESE PLANS. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS. INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
  - a. NEW HAMPSHIRE STORMWATER MANUAL, VOLUMES 1, 2 & 3, DECEMBER 2008.
  - b. NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION MANUAL ON DRAINAGE DESIGN FOR HIGHWAYS, REVISION DATE APRIL 1998.

    C. NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD
  - c. NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS (2010).
  - d. EVERSOURCE BEST MANAGEMENT PRACTICES MANUAL (TO BE FURTHER DEVELOPED).
  - e. EVERSOURCE STANDARD SPECIFICATIONS (10-24-2014).
- 7. DO NOT INTERRUPT EXISTING SERVICING UTILITIES AND FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER, THE LOCAL MUNICIPALITIES, THE UTILITY PROVIDER, AND ANY APPLICABLE REGULATORY AGENCY. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- 8. THE CONTRACTOR SHALL PROVIDE RECORD AS-BUILT DRAWINGS OF ALL CONSTRUCTION IN ACCORDANCE WITH OWNER AND REGULATORY AGENCY REQUIREMENTS (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.

- 9. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING PLANS. IN CASE OF CONFLICT BETWEEN PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 10. IF A CONFLICT ARISES BETWEEN PLANS, SPECIFICATIONS, AND/OR DETAILS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATION.
- 11. THE CONTRACTOR SHALL ABIDE BY ALL OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS IN ALL INSTANCES AND WHEN OPERATING CRANES, BOOMS, HOISTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENT FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
- 12. THE ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- 13. ALL NOTES AND DIMENSIONS DESIGNATED "TYPICAL" OR "(TYP.)" APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
- 14. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF SUBMITTED, REVIEWED, AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO CONSTRUCTION.
- 15. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING, FABRICATION, OR DELIVERY TO THE SITE. FOR EACH SUBMITTAL, ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- 16. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE AND OTHER INCIDENTAL DISTURBANCES AND DAMAGES DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE OWNER, ENGINEER AND REGULATORY AGENCY.
- 17. THE CONTRACTOR SHALL COMPLY WITH 29 CFR PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- 18. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
- 19. DEMOLITION OF EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO BUILDINGS, STRUCTURES, PAVEMENT, WELLS, SEPTIC, SANITARY SEWER, FENCES, TREES, ETC. SHALL BE PER THE DIRECTION OF EVERSOURCE AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 20. PERMANENT BENCHMARKS SHALL BE INSTALLED UPON COMPLETION OF CLEARING.
- 21. ELECTRICAL SUBSTATION COMPONENTS, UNDERGROUND TRANSMISSION LINES, OVER HEAD TRANSMISSION LINES AND THEIR FOUNDATIONS DEPICTED HEREIN ARE FOR REFERENCE ONLY.
- 22. ANY CLEARED AND EXCAVATED MATERIALS WHICH ARE SUSPECTED OF BEING ENVIRONMENTALLY POLLUTED, CONTAMINATED, OR IMPACTED SHALL BE STOCKPILED ON-SITE ON TOP OF POLYETHYLENE SHEETING AND COVERED WITH POLYETHYLENE SHEETING. THE OWNER AND ENGINEER SHALL BE IMMEDIATELY INFORMED UPON ENCOUNTERING THIS MATERIAL. STORAGE, TESTING, TREATMENT, REMOVAL, AND DISPOSAL OF ENVIRONMENTALLY POLLUTED, CONTAMINATED, OR IMPACTED MATERIAL SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- 23. CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE NO DISTURBANCE BEYOND THE DEPICTED LIMIT OF DISTURBANCE.
- 24. THE CONTRACTOR SHALL ESTABLISH BEST MANAGEMENT PRACTICES FOR BLASTING OF BEDROCK IN ACCORDANCE WITH THE NHDES PUBLICATION WD-10-12. ROCK BLASTING AND WATER QUALITY MEASURES THAT CAN BE TAKEN TO PROTECT WATER QUALITY AND MITIGATE IMPACTS, 2010. IF THE BLAST ROCK VOLUME GENERATED IS GREATER THAN 5,000 CUBIC YARDS, THE CONTRACTOR SHALL DEVELOP A GROUNDWATER MONITORING PROGRAM FOR SUBMISSION TO THE OWNER AND ENGINEER. BLASTING SHALL NOT COMMENCE UNTIL THESE REQUIREMENTS ARE APPROVED BY THE NHDES, AS REQUIRED.
- 25. PROPOSED STORM DRAINAGE SYSTEM SHALL BE HS-20 RATED



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WITHOUT

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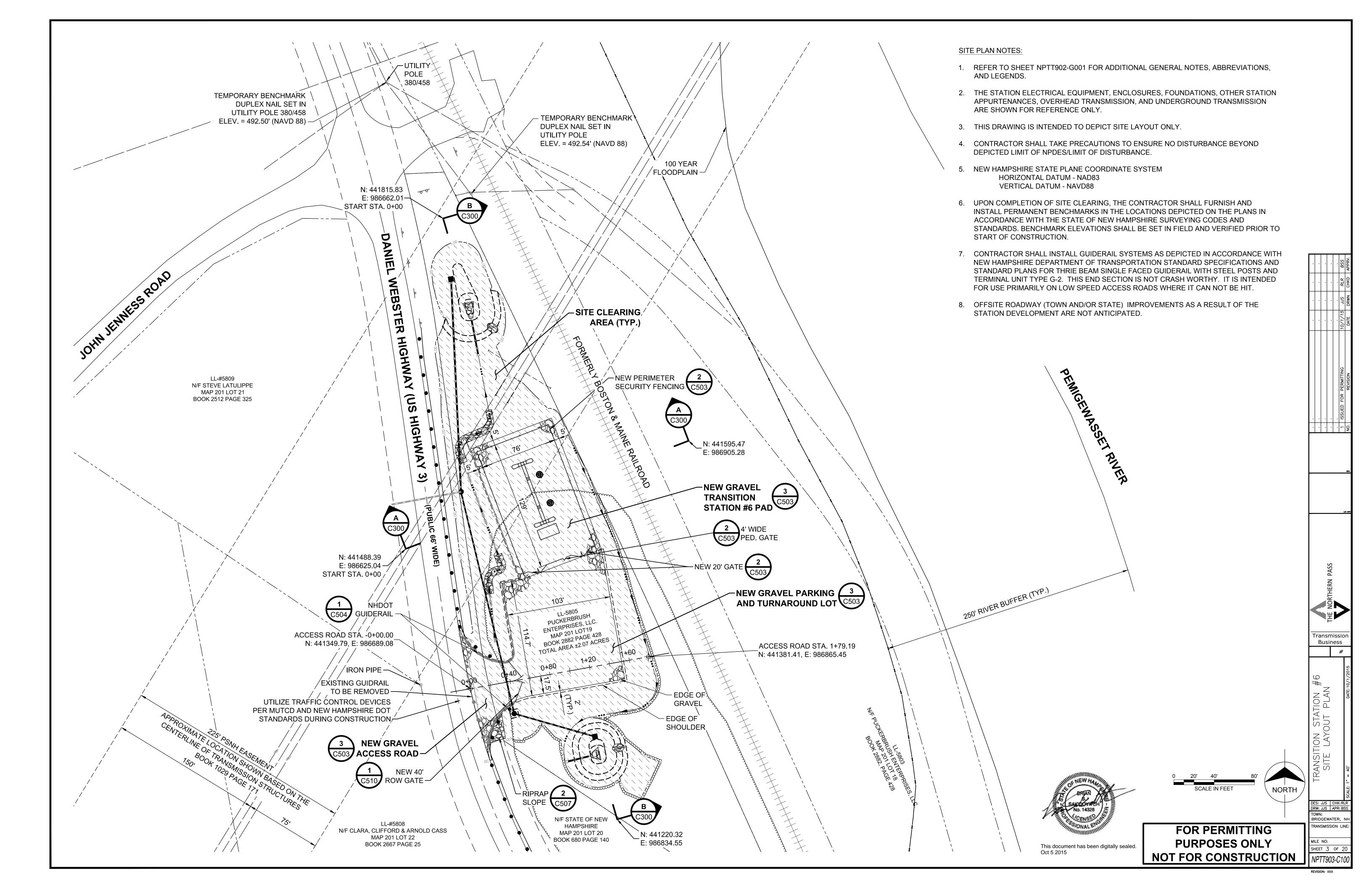
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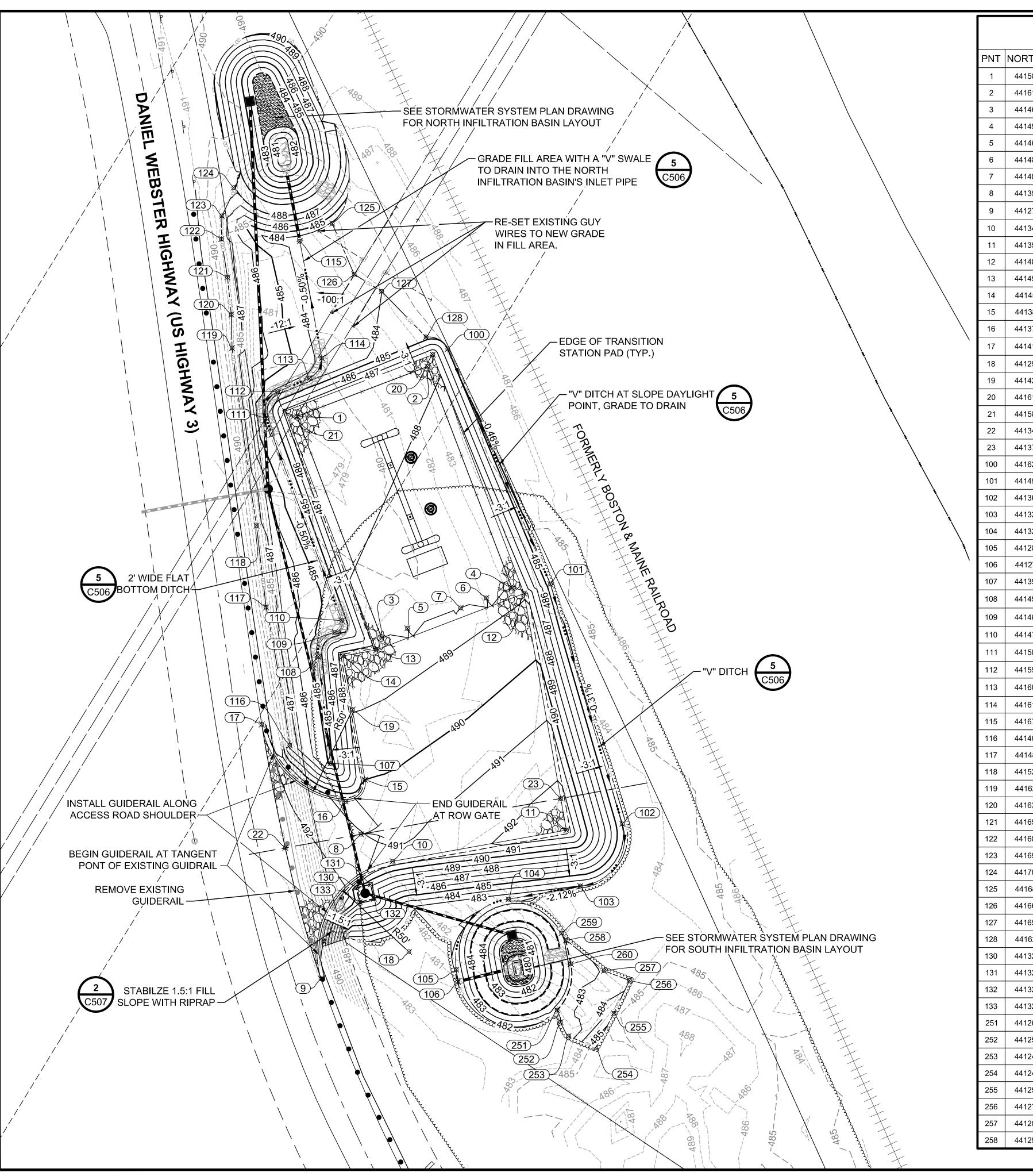
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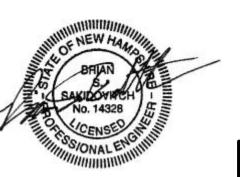


POINT TABLE								
PNT	NORTHING		ELEV.	DESCRIPTION				
1	441584.33	986695.42		CHAIN-LINK FENCE CORNER				
2	441611.47	986766.42		CHAIN-LINK FENCE CORNER				
3	441463.84	986741.48		CHAIN-LINK FENCE CORNER				
4	441490.97	986812.46		CHAIN-LINK FENCE CORNER				
5	441469.19	986755.49		CENTERLINE 20' CHAIN-LINK GATE				
6	441485.62	986798.45		CENTERLINE 20' CHAIN-LINK GATE				
7	441480.26	986784.44		HINGE POINT 4' CHAIN-LINK GATE				
8	441357.17	986730.25	400.07	CENTERLINE 40' ROW GATE				
9	441278.69	986708.49	492.97	GRAVEL PC (MATCH EXISTING)				
10	441342.48	986747.49	491.18	GRAVEL CORNER				
11	441359.43 441488.08	986842.00 986818.93	492.82 488.90	GRAVEL CORNER GRAVEL CORNER				
13	441457.38	986738.59	488.29	GRAVEL PI				
14	441454.11	986720.36	488.16	GRAVEL CORNER				
15	441386.81	986732.43	490.00	GRAVEL PC				
16	441375.07	986721.82	490.79	GRAVEL PT/PC				
				GRAVEL PT (MATCH EXISTING)				
17	441416.88	986676.31	492.48	,				
18	441293.27	986756.32 986725.66		GRAVEL CENTER 50' RADIUS				
19 20	441424.92 441617.92	986725.66	487.91	GRAVEL PAD CORNER				
20	441617.92	986769.30	487.91	GRAVEL PAD CORNER  GRAVEL PAD CORNER				
21	441587.22	986689.97	487.30	ACCESS ROAD CL - BEGINNING				
	441349.79		492.74					
23 100	441376.65	986838.91 986777.45	492.30	ACCESS ROAD CL - END DITCH CL - BEGINNING				
100	441621.04	986833.27	485.00	DITCH CL - BEGINNING  DITCH CL - PI				
101	441362.85	986872.41	483.94	DITCH CL - PC				
102	441329.04	986849.48	482.97	DITCH CL - PT				
103	441321.82	986810.46	482.13	DITCH CL - PC				
105	441283.59	986782.06	481.08	DITCH CL - PT				
106	441277.01	986782.84	480.85	DITCH CL - END				
107	441395.69	986713.70	484.96	DITCH CL - BEGINNING				
108	441453.76	986707.04	484.67	DITCH CL - PC (11' RADIUS)				
109	441466.97	986716.04	484.59	DITCH CL - PT/PC (5' RADIUS)				
110	441473.32	986719.86	484.54	DITCH CL - PT				
111	441583.26	986678.66	483.95	DITCH CL - PC (11' RADIUS)				
		986684.90		·				
112	441597.75		483.87	DITCH CL - PT DITCH CL - PC (12' RADIUS)				
113	441605.14	986702.27	483.78	, ,				
114	441616.09	986708.94	483.70	DITCH CL - PT				
115	441679.55	986697.02	483.38	DITCH CL - END				
116	441405.53	986691.52	487.55	DAYLIGHT SLOPE MATCH POINT				
117	441480.51	986673.43	487.50	DAYLIGHT SLOPE MATCH POINT				
118	441524.95	986673.43	487.41	DAYLIGHT SLOPE MATCH POINT				
119	441621.51	986660.12	487.53	DAYLIGHT SLOPE MATCH POINT				
120 121	441639.75 441659.99	986659.71 986657.66	487.47 487.42	DAYLIGHT SLOPE MATCH POINT  DAYLIGHT SLOPE MATCH POINT				
121	441680.78	986654.32	487.42	DAYLIGHT SLOPE MATCH POINT  DAYLIGHT SLOPE MATCH POINT				
123	441693.37	986654.63	487.55	DAYLIGHT SLOPE MATCH POINT  DAYLIGHT SLOPE MATCH POINT				
123	441708.73	986661.09	488.29	DAYLIGHT SLOPE MATCH POINT				
125	441689.21	986714.61	483.76	DAYLIGHT SLOPE MATCH POINT				
126	441661.65	986726.57	483.75	DAYLIGHT SLOPE MATCH POINT				
127	441652.35	986741.49	484.00	DAYLIGHT SLOPE MATCH POINT				
128	441627.51	986765.64	484.49	DAYLIGHT SLOPE MATCH POINT				
130	441328.07	986727.69	489.30	MANHOLE PAD CORNER				
131	441329.94	986735.47	489.30	MANHOLE PAD CORNER				
132	441322.16	986737.34	489.22	MANHOLE PAD CORNER				
133	441320.29	986729.56	489.22	MANHOLE PAD CORNER				
251	441261.54	986836.88	482.32	TOE OF BASIN OUTSIDE SLOPE/MATCH POINT				
252	441255.04	986838.80	482.15	DAYLIGHT SLOPE MATCH POINT				
253	441247.42	986843.12	482.34	DAYLIGHT SLOPE MATCH POINT				
254	441241.15	986857.94	485.73	DAYLIGHT SLOPE MATCH POINT				
255	441259.86	986867.81	484.57	DAYLIGHT SLOPE MATCH POINT				
256	441277.72	986876.27	483.74	DAYLIGHT SLOPE MATCH POINT				
257	441282.98	986862.48	483.08	DAYLIGHT SLOPE MATCH POINT				
258	441299.45	986841.69	482.72	DAYLIGHT SLOPE MATCH POINT				
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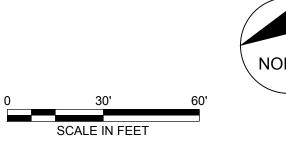
	POINT TABLE							
PNT NORTHING EASTING ELEV. DESCRIPTION								
259	441303.41	986839.39	483.00	TOE OF BASIN OUTSIDE SLOPE/MATCH POINT				
260	441286.69	986844.37	482.59	TOE OF BASIN OUTSIDE SLOPE - PC				

#### **GRADING PLAN NOTES:**

- 1. REFER TO SHEET NPTT902-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. REFER TO SHEET NPTT909-C300 FOR GRADING CROSS SECTIONS.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM **HORIZONTAL DATUM - NAD83** VERTICAL DATUM - NAVD88
- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.
- 5. ALL FILL AND CUT SLOPES ARE 3-FT HORIZONTAL TO 1-FT VERTICAL (3:1) UNLESS NOTED OTHERWISE.
- 6. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDICATED. EROSION CONTROL BLANKETS (NORTH AMERICAN GREEN SC250 OR ENGINEER APPROVED EQUAL) SHALL BE PLACED OVER ALL SEEDED SIDE SLOPES.
- 7. AFTER COMPLETION OF YARD SUBGRADE WORK, THE SURFACE COURSE FOR THE SUBSTATION (INSIDE THE FENCE, 5-FT OUTSIDE THE FENCE, AND WHERE INDICATED ON THE PLANS) SHALL CONSISTS OF A 4-INCH LAYER OF CRUSHED BASALT (ANGULAR STONE) STONE MEETING THE GRADATION REQUIREMENTS EXPLAINED IN THE SPECIFICATIONS.
- 8. CONTRACTOR SHALL PROTECT/REPAIR ALL SLOPES UNTIL FINAL VEGETATIVE OR STONE STABILIZATION.
- 9. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED AND STABILIZED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
- 10. STABILIZE ALL DITCHES, SWALES, AND PONDS PRIOR TO DIRECTING STORMWATER RUNOFF TO THEM.
- 11. TURF REINFORCEMENT MAT (TRM) SHALL BE INSTALLED ON ALL 3-FT HORIZONTAL TO 1-FT VERTICAL SLOPES (3:1) OR STEEPER, AND BE NORTH AMERICAN GREEN SC250 OR APPROVED EQUAL.
- 12. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING REPORT BY OTHERS.



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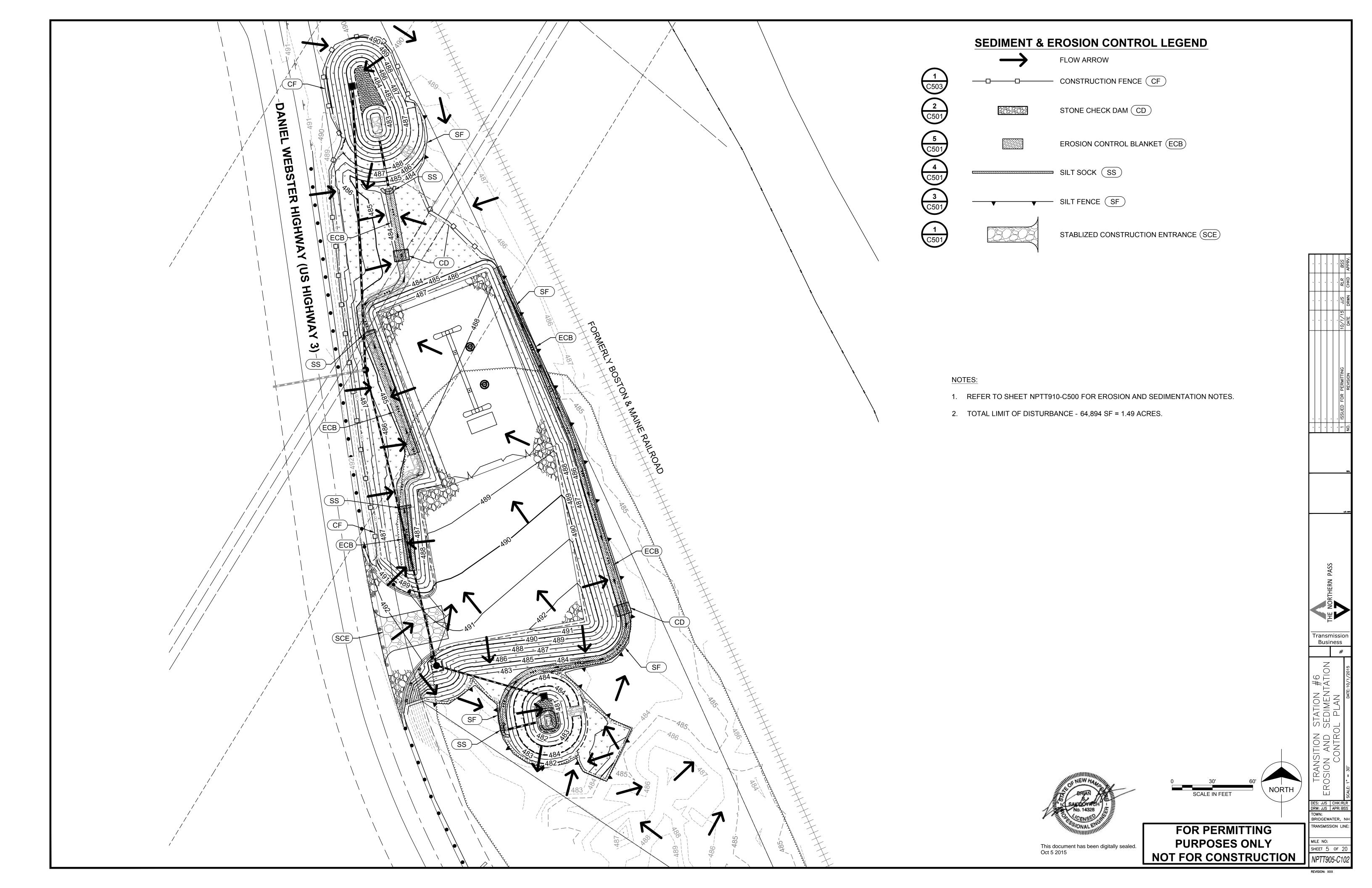
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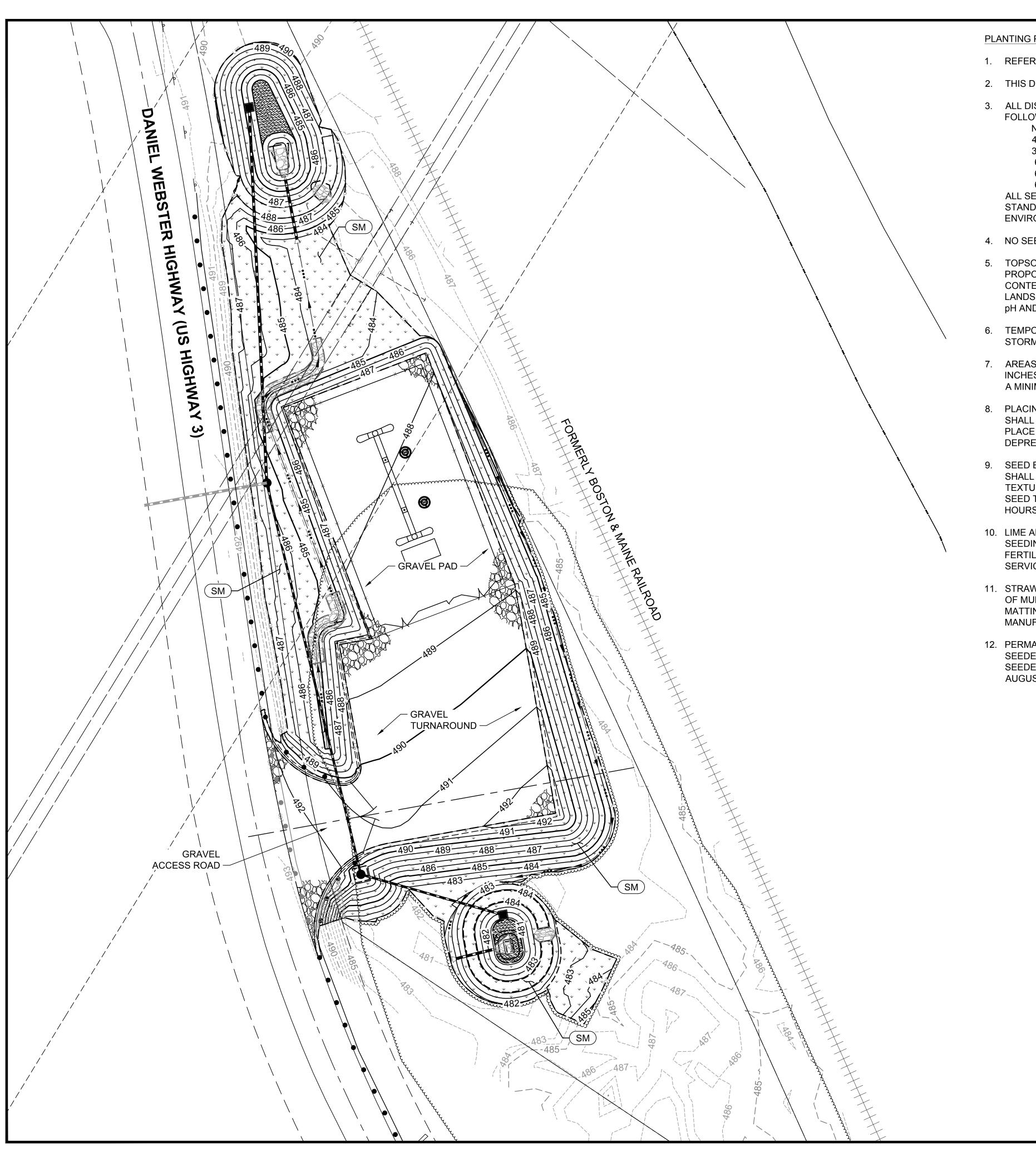
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#### PLANTING PLAN NOTES:

- 1. REFER TO SHEET NPTT902-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE LANDSCAPE INFORMATION ONLY.
- 3. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL HAVE A MINIMUM OF 4" OF LOAM AND THE FOLLOWING SEED MIXTURE:

NHDOT TYPE 44 (MIN. 80 LBS/ACRE)

44% CREEPING RED FESCUE (MIN. 35 LBS/ACRE)

38% PERENNIAL RYEGRASS (MIN. 30 LBS/ACRE)

6% REDTOP (MIN. 5 LBS/ACRE)

6% ALSIKE CLOVER (MIN. 5 LBS/ACRE)

6% BIRDSFOOT TREFOIL (MIN. 5 LBS/ACRE)

ALL SEEDING SHALL BE IN ACCORDANCE WITH THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (2010) SECTION 644 -- GRASS SEED AND THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUAL VOLUME 3 PERMANENT VEGETATION IN SECTION 4.1.

- 4. NO SEEDING SHALL BE PLACED BEFORE ROUGH GRADING HAS BEEN PROPERLY COMPLETED.
- 5. TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES FROM EACH PROPOSED TOPSOIL SOURCE TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO OWNER OR LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR PROPER SOIL pH AND PLANT GROWTH AS RECOMMENDED BY TEST REPORTS AT NO INCREASE IN CONTRACT PRICE.
- 6. TEMPORARY AND PERMANENT SEEDING SHALL SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN, NH DES STORMWATER MANUAL VOLUME 3, AND NH DOT STANDARD SPECIFICATIONS SECTION 644.
- 7. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING.
- 8. PLACING LOAM ON SITE: ALL SUBGRADE ELEVATIONS SHOULD BE UNIFORMLY GRADED TO RECEIVE LOAM AND SHALL BE INSPECTED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO PLACEMENT OF LOAM. PLACE LOAM TO FORM A MINIMUM DEPTH OF 4" WHEN ROLLED, UNLESS OTHERWISE INDICATED. ALL DEPRESSIONS EXPOSED DURING THE ROLLING SHALL BE FILLED WITH ADDITIONAL LOAM.
- 9. SEED BED PREPARATION: AFTER FINISH GRADING AND JUST BEFORE SEEDING, THE AREAS TO BE SEEDED SHALL BE LOOSENED TO PROVIDE A ROUGH, FIRM BUT FINELY PULVERIZED SEEDBED. THE INTENT IS A TEXTURE CAPABLE OF RETAINING WATER, SEED AND FERTILIZER WHILE REMAINING STABLE AND ALLOWING SEED TIME TO GERMINATE. SEED SHALL BE APPLIED TO THE CONDITIONED SEEDBED NOT MORE THAN 48 HOURS AFTER THE SEEDBED HAS BEEN PREPARED.
- 10. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE SOIL PRIOR TO OR AT THE TIME OF AT THE TIME OF SEEDING. A MINIMUM OF 2 TONS PER ACRE OF AGRICULTURAL LIMESTONE AND 500 LBS. PER ACRE OF 10-20-20 FERTILIZER SHALL BE APPLIED. SEEDING PRACTICES SHALL COMPLY WITH LOCAL USDA SOIL CONSERVATION SERVICES RECOMMENDATIONS.
- 11. STRAW MULCH OR JUTE MATTING SHALL BE USED WHERE INDICATED ON THE PLANS. A MINIMUM OF 1.5 TONS OF MULCH PER ACRE SHALL BE APPLIED. MULCH SHALL BE ANCHORED IN PLACE WHERE NECESSARY. JUTE MATTING SHALL BE LAID IN THE DIRECTION OF RUNOFF FLOW AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 12. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS AREA NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS.

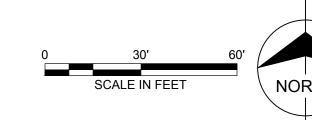
## **PLANTING LEGEND**



AREA TO BE SEEDED = 0.85 ACRES



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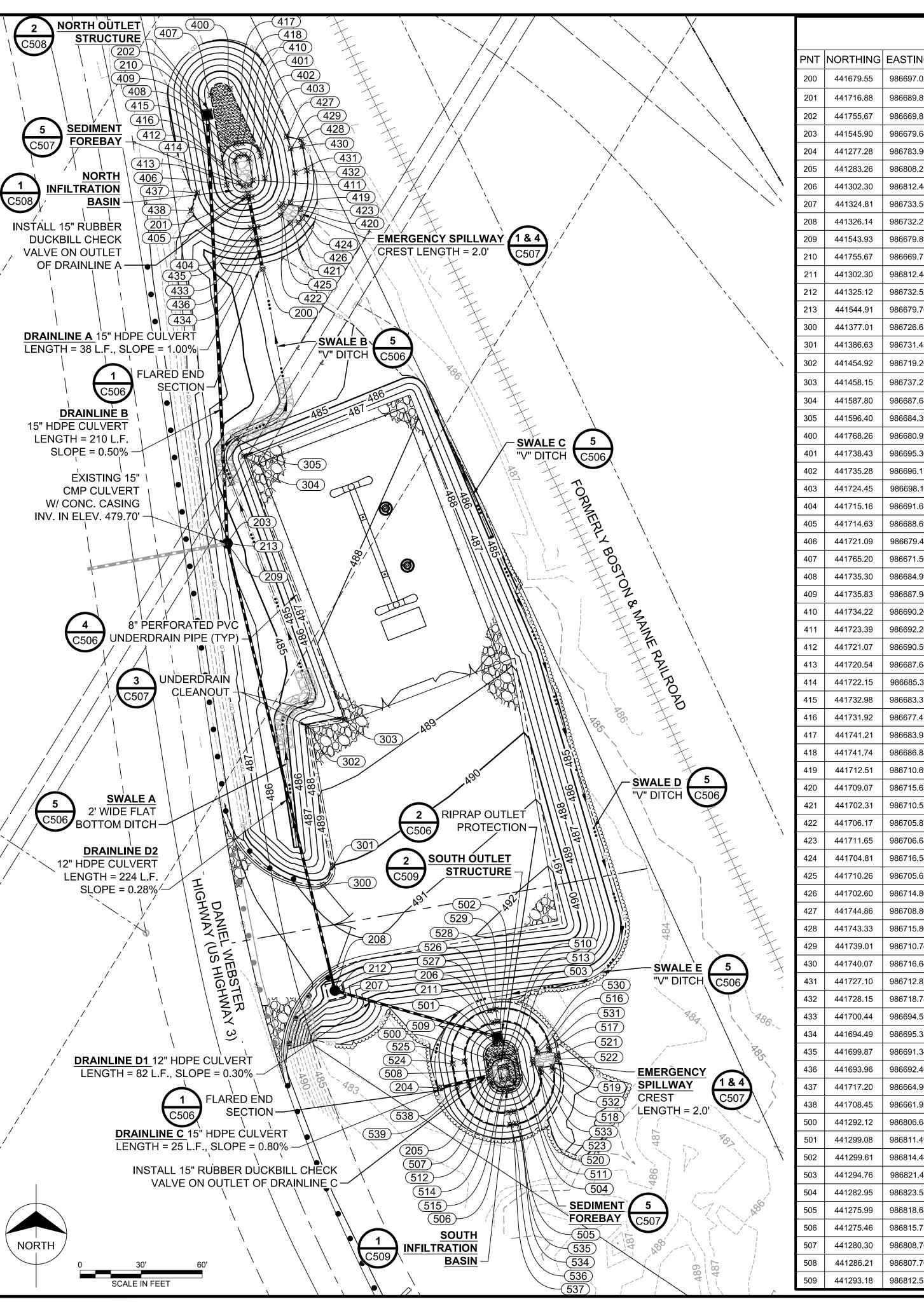
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SHEET 6 OF 2

NPTT906-C10

TOWN: BRIDGEWATER, I TRANSMISSION LIP



POINT TABLE								
PNT	NORTHING	EASTING	ELEV.	DESCRIPTION				
200	441679.55	986697.02	483.38	DRAINLINE A - 15" HDPE PIPE INVERT IN (FES)				
201	441716.88	986689.89	483.00	DRAINLINE A - 15" HDPE PIPE INVERT OUT (FES)				
202	441755.67	986669.83	480.75	DRAINLINE B - 15" HDPE PIPE INVERT IN				
203	441545.90	986679.64	479.70	DRAINLINE B - 15" HDPE PIPE INVERT OUT				
204	441277.28	986783.96	480.85	DRAINLINE C - 15" HDPE PIPE INVERT IN				
205	441283.26	986808.23	480.65	DRAINLINE C - 15" HDPE PIPE INVERT OUT				
206	441302.30	986812.44	480.58	DRAINLINE D1 - 12" HDPE PIPE INVERT IN				
207	441324.81	986733.59	480.33	DRAINLINE D1 - 12" HDPE PIPE INVERT OUT				
208	441326.14	986732.27	480.33	DRAINLINE D2 - 12" HDPE PIPE INVERT IN				
209	441543.93 441755.67	986679.89 986669.77	479.70 486.41	DRAINLINE D2 - 15" HDPE PIPE INVERT OUT				
210	441302.30	986812.44	483.00	POND OUTLET STRUCTURE - GRATE ELEVATION  POND OUTLET STRUCTURE - GRATE ELEVATION				
212	441325.12	986732.52	489.30	MANHOLE #1 - COVER ELEVATION				
213	441544.91	986679.76	486.50	MANHOLE #2 - COVER ELEVATION				
300	441377.01	986726.65	487.71	8" UNDERDRAIN INVERT - BEGINNING PC				
301	441386.63	986731.45	487.12	8" UNDERDRAIN INVERT - PT				
302	441454.92	986719.20	485.28	8" UNDERDRAIN INVERT - PI (INSTALL CLEANOUT)				
303	441458.15	986737.23	484.92	8" UNDERDRAIN INVERT - PI (INSTALL CLEANOUT)				
304	441587.80	986687.68	483.99	8" UNDERDRAIN INVERT - PVI				
305	441596.40	986684.39	483.87	8" UNDERDRAIN INVERT - OUTLET				
400	441768.26	986680.92	483.00	BOTTOM OF NORTH DETENTION POND - PT				
401	441738.43	986695.30	483.00	BOTTOM OF NORTH DETENTION POND - PC				
402	441735.28	986696.17	483.00	BOTTOM OF NORTH DETENTION POND - PT				
403	441724.45	986698.11	483.00	BOTTOM OF NORTH DETENTION POND - PC				
404	441715.16	986691.65	483.00	BOTTOM OF NORTH DETENTION POND - PT				
405	441714.63	986688.69	483.00	BOTTOM OF NORTH DETENTION POND - PC				
406 407	441721.09 441765.20	986679.41 986671.50	483.00 483.00	BOTTOM OF NORTH DETENTION POND - PT  BOTTOM OF NORTH DETENTION POND - PC				
407	441735.30	986684.99	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
409	441735.83	986687.94	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
410	441734.22	986690.26	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
411	441723.39	986692.20	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
412	441721.07	986690.59	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
413	441720.54	986687.64	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
414	441722.15	986685.31	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
415	441732.98	986683.37	481.00	BOTTOM OF NORTH SEDIMENT FOREBAY - PI				
416	441731.92	986677.47	483.00	TOP OF NORTH SEDIMENT FOREBAY SLOPE - PC				
417	441741.21	986683.93	483.00	TOP OF NORTH SEDIMENT FOREBAY SLOPE - PT				
418	441741.74	986686.88	483.00	TOP OF NORTH SEDIMENT FOREBAY SLOPE - PT				
419 420	441712.51 441709.07	986710.69 986715.65	488.00 488.00	TOP OF NORTH SPILLWAY - PI  TOP OF NORTH SPILLWAY - PI				
420	441709.07	986710.52	488.00	TOP OF NORTH SPILLWAY - PI				
422	441706.17	986705.87	488.00	TOP OF NORTH SPILLWAY - PI				
423	441711.65	986706.68	487.00	BOTTOM OF NORTH SPILLWAY SLOPE - PI				
424	441704.81	986716.54	487.00	BOTTOM OF NORTH SPILLWAY SLOPE - PI				
425	441710.26	986705.62	487.00	BOTTOM OF NORTH SPILLWAY SLOPE - PI				
426	441702.60	986714.86	487.00	BOTTOM OF NORTH SPILWAY SLOPE - PI				
427	441744.86	986708.86	488.00	TOP OF NORTH BERM - BEGINNING				
428	441743.33	986715.86	488.00	TOP OF NORTH BERM - BEGINNING				
429	441739.01	986710.74	488.00	TOP OF NORTH BERM - PI				
430	441740.07	986716.64	488.00	TOP OF NORTH BERM - PI				
431	441727.10	986712.87	488.00	TOP OF NORTH BERM - PC				
432	441728.15	986718.78	488.00	TOP OF NORTH BERM - PC				
433	441700.44 441694.49	986694.53 986695.35	488.00 488.00	TOP OF NORTH BERM - PT  TOP OF NORTH BERM - PT				
434	441694.49	986691.34	488.00	TOP OF NORTH BERM - PT				
436	441693.96	986692.40	488.00	TOP OF NORTH BERM - PC				
437	441717.20	986664.90	488.00	TOP OF NORTH BERM - PT END				
438	441708.45	986661.92	488.00	TOP OF NORTH BERM - PT END				
500	441292.12	986806.64	480.65	BOTTOM OF SOUTH DETENTION POND - PT				
501	441299.08	986811.49	480.65	BOTTOM OF SOUTH DETENTION POND - PC				
502	441299.61	986814.44	480.65	BOTTOM OF SOUTH DETENTION POND - PT				
503	441294.76	986821.41	480.65	BOTTOM OF SOUTH DETENTION POND - PT				
504	441282.95	986823.53	480.65	BOTTOM OF SOUTH DETENTION POND - PC				
505	441275.99	986818.68	480.65	BOTTOM OF SOUTH DETENTION POND - PT				
506	441275.46	986815.73	480.65	BOTTOM OF SOUTH DETENTION POND - PT				
507	441280.30	986808.76	480.65	BOTTOM OF SOUTH DETENTION POND - PC				
508	441286.21 441293.18	986807.70	480.65	TOP OF SOUTH SEDIMENT FOREBAY SLOPE - PT				
509	. 444000 40	986812.55	480.65	TOP OF SOUTH SEDIMENT FOREBAY SLOPE - PT				

POINT TABLE								
PNT	NORTHING	EASTING	ELEV.	DESCRIPTION				
510	441293.70	986815.50	480.65	TOP OF SOUTH SEDIMENT FOREBAY SLOPE - PC				
511	441288.86	986822.47	480.65	TOP OF SOUTH SEDIMENT FOREBAY SLOPE - PC				
512	441287.27	986813.61	478.65	BOTTOM OF SOUTH SEDIMENT FOREBAY - PI				
513	441287.80	986816.56	478.65	BOTTOM OF SOUTH SEDIMENT FOREBAY - PI				
514	441281.36	986814.67	478.65	BOTTOM OF SOUTH SEDIMENT FOREBAY - PI				
515	441281.89	986817.62	478.65	BOTTOM OF SOUTH SEDIMENT FOREBAY - PI				
516	441294.65	986832.10	484.15	TOP OF SOUTH SPILLWAY - PI				
517	441295.71	986838.00	484.15	TOP OF SOUTH SPILLWAY - PI				
518	441286.77	986833.51	484.15	TOP OF SOUTH SPILLWAY - PI				
519	441287.83	986839.41	484.15	TOP OF SOUTH SPILLWAY - PI				
520	441291.17	986829.67	483.15	BOTTOM OF SOUTH SPILLWAY SLOPE - PI				
521	441293.28	986841.48	483.15	BOTTOM OF SOUTH SPILLWAY SLOPE - PI				
522	441291.32	986841.84	483.15	BOTTOM OF SOUTH SPILLWAY SLOPE - PI				
523	441289.20	986830.03	483.15	BOTTOM OF SOUTH SPILLWAY SLOPE - PI				
524	441289.20	986790.40	484.15	TOP OF SOUTH BERM - PC				
525	441290.26	986796.31	484.15	TOP OF SOUTH BERM - PC				
526	441315.32	986808.58	484.15	TOP OF SOUTH BERM - PT				
527	441309.42	986809.64	484.15	TOP OF SOUTH BERM - PT				
528	441315.85	986811.53	484.15	TOP OF SOUTH BERM - PC				
529	441309.95	986812.59	484.15	TOP OF SOUTH BERM - PC				
530	441296.62	986831.74	484.15	TOP OF SOUTH BERM - PT				
531	441297.68	986837.65	484.15	TOP OF SOUTH BERM - PT				
532	441285.86	986839.77	484.15	TOP OF SOUTH BERM - PC				
533	441284.81	986833.86	484.15	TOP OF SOUTH BERM - PC				
534	441259.75	986821.59	484.15	TOP OF SOUTH BERM - PT				
535	441265.65	986820.53	484.15	TOP OF SOUTH BERM - PT				
536	441259.22	986818.64	484.15	TOP OF SOUTH BERM - PC				
537	441265.12	986817.58	484.15	TOP OF SOUTH BERM - PC				
538	441277.39	986792.52	484.15	TOP OF SOUTH BERM - PT				
539	441278.45	986798.43	484.15	TOP OF SOUTH BERM - PT				

#### TORMWATER SYSTEM PLAN NOTES:

- REFER TO SHEET NPTT902-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- THIS DRAWING IS INTENDED TO DESCRIBE THE STORMWATER SYSTEM ONLY.
- NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM **HORIZONTAL DATUM - NAD83** VERTICAL DATUM - NAVD88
- STORM DRAINAGE SYSTEM CONNECTIONS, MATERIALS, AND METHODS SHALL BE IN ACCORDANCE WITH THE NH DOT STANDARDS AND NH DOT SPECIFICATION SECTIONS 603 AND 604, AS WELL AS OTHER APPLICABLE INDUSTRY CODES AND GOVERNING AGENCY REQUIREMENTS.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- MANHOLE RIMS AND CATCH BASIN GRATES SHALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS. GRATES AND OTHER UTILITY TOPS TO BE RAISED OR LOWERED FLUSH WITH FINAL GRADE AS NECESSARY.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH APPLICABLE REGULATORY AGENCIES FOR STORM DRAINAGE INSTALLATIONS AND CONNECTIONS.
- THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 10. ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE OWNER, UTILITY PROVIDER, AND APPLICABLE REGULATORY AGENCY REQUIREMENTS.
- 11. A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN ELECTRICAL AND TELEPHONE LINES TO STORM PIPING SHALL BE PROVIDED.
- 12. SITE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS.
- 13. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS WITHOUT INTERRUPTION UNLESS/UNTIL AUTHORIZED BY THE OWNER, THE ENGINEER, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.
- STORM DRAINAGE SHALL BE RATED FOR HS-20 LOADING.
- 15. PROVIDE MINIMUM 1% SLOPE ON ALL UNDERDRAINS. ADDITIONAL UNDERDRAINS MAY BE REQUIRED AS DEEMED NECESSARY BY THE OWNER, GEOTECHNICAL ENGINEER AND/OR ENGINEER BASED ON FINDINGS AFTER EARTHWORK AND EXCAVATION OPERATIONS COMMENCE. PROVIDE UNDERDRAIN CLEANOUTS AT A MINIMUM OF EVERY 200' OF PIPE OR ONE CLEANOUT PER PIPE RUN WHERE THE PIPE RUN IS LESS THAN 200'.



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RIDGEWATER,

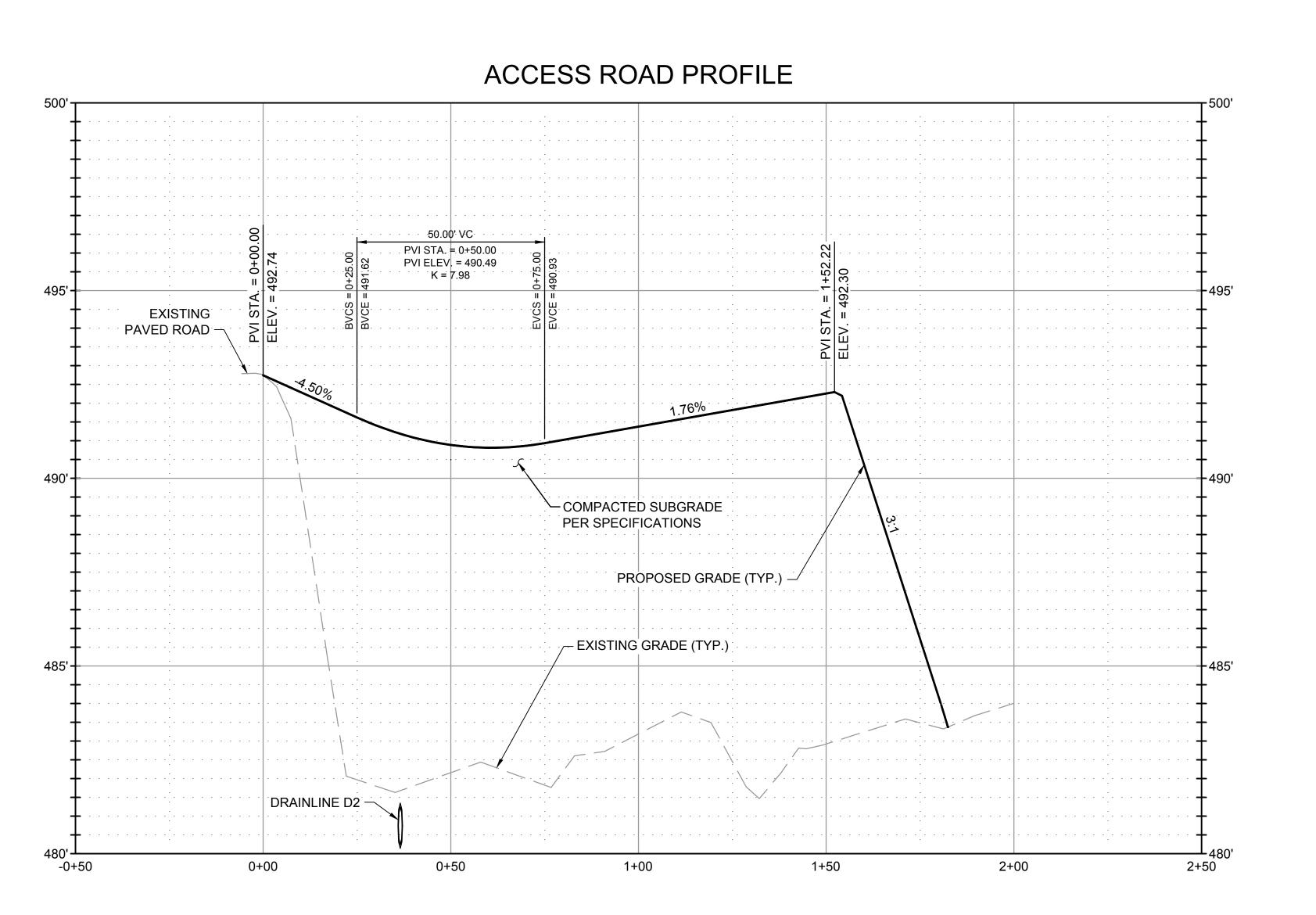
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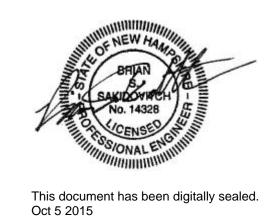
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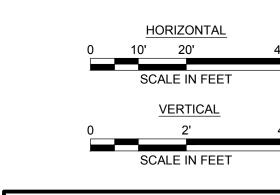
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#### ACCESS ROAD PROFILE NOTES:

- REFER TO SHEET NPTT902-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE THE STATION ACCESS ROAD GEOMETRY ONLY.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM
  - HORIZONTAL DATUM NAD83 VERTICAL DATUM - NAVD88
- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.







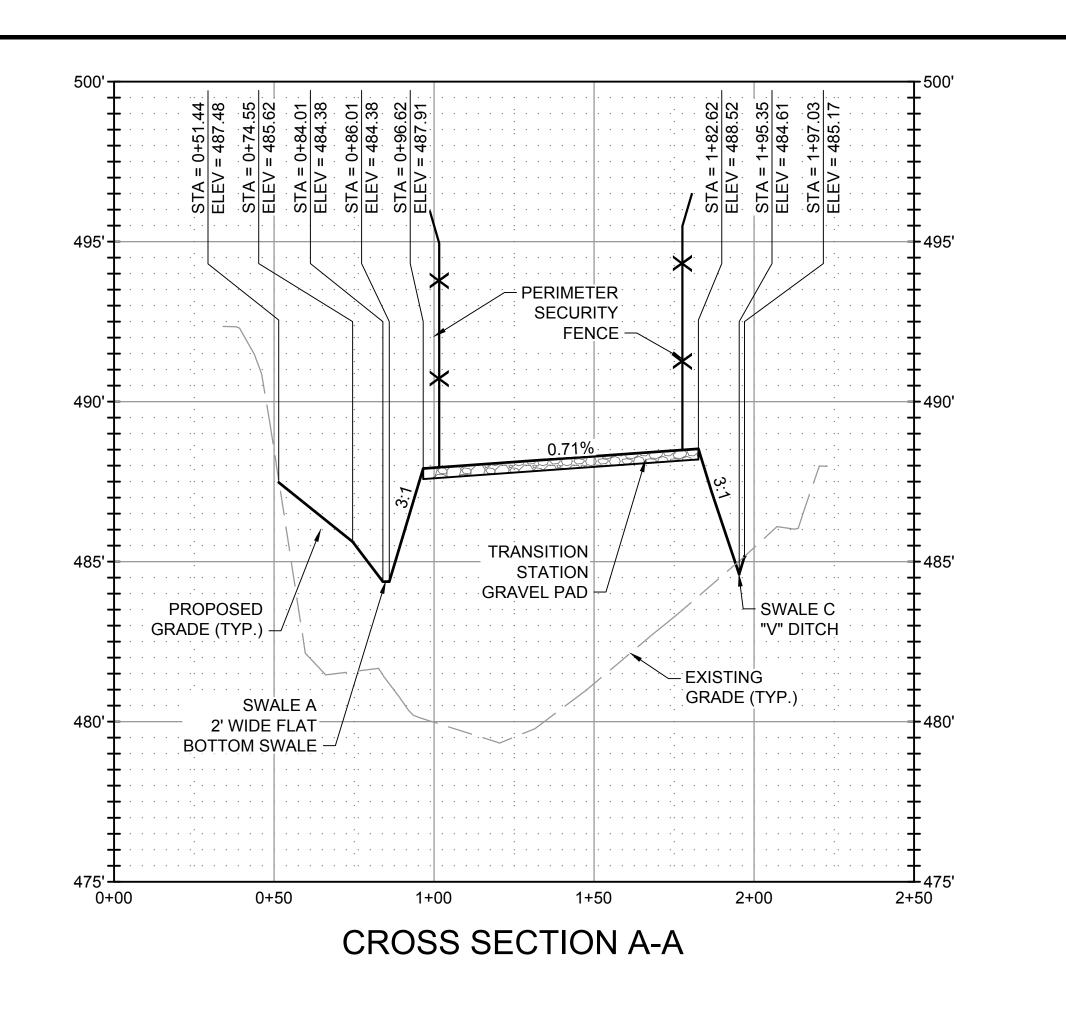
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TOWN: BRIDGEWATER,

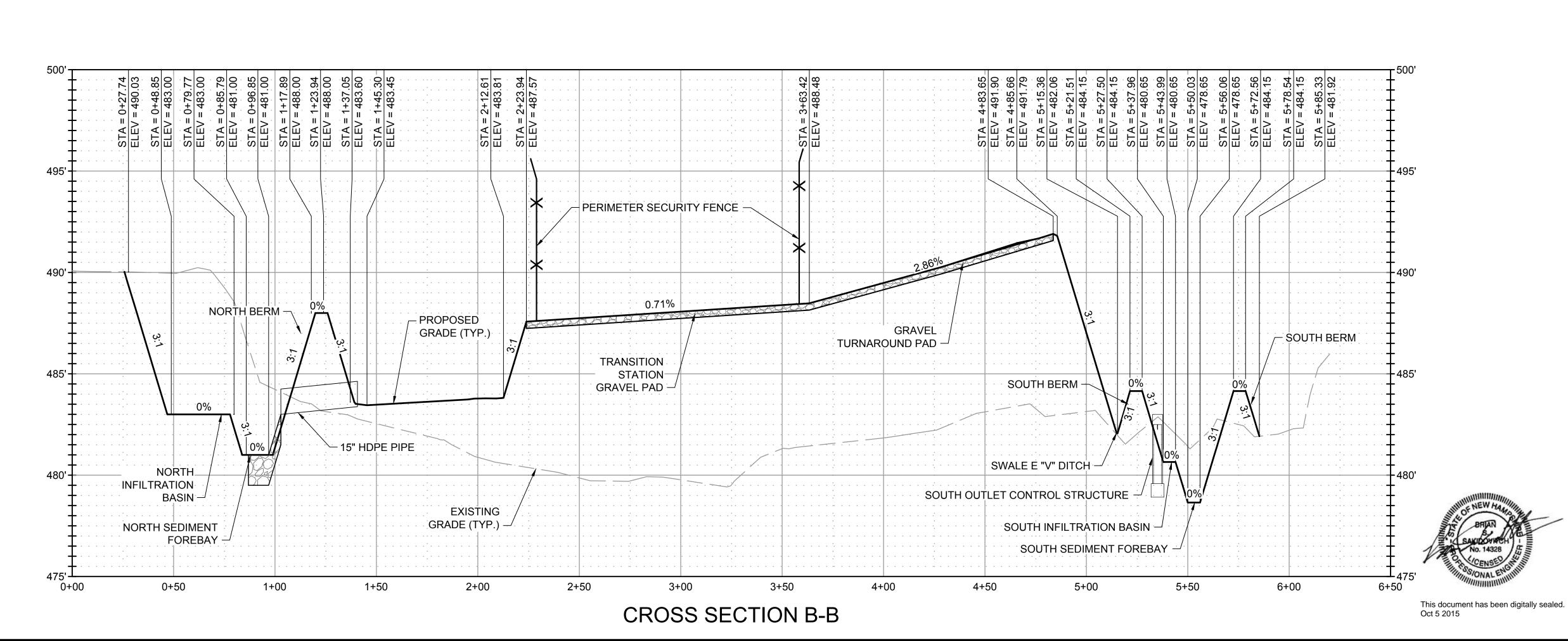
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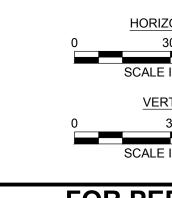
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#### **GRADING CROSS SECTION NOTES:**

- 1. REFER TO SHEET NPTT902-G001 FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS, AND LEGENDS.
- 2. THIS DRAWING IS INTENDED TO DESCRIBE THE GRADING CROSS SECTIONS ONLY.
- 3. NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM HORIZONTAL DATUM - NAD83 VERTICAL DATUM - NAVD88
- 4. PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATED REFER TO TOP OF FINISH SURFACE.
- 5. CONTRACTOR SHALL PLACE 4" TOPSOIL AND SEED ON ALL CUT AND FILL SLOPES AS SPECIFIED UNLESS ANOTHER SURFACE MATERIAL IS INDIC
- 6. EARTHWORK AND COMPACTION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL ENGINEERING RECOMMENDATIONS REPORT BY OTHERS.
- 7. STRIP AND STOCKPILE EXISTING TOPSOIL IN AREAS OF PROPOSED GRADING AND EARTHWORK.





FOR PERMITTING **PURPOSES ONLY** NOT FOR CONSTRUCTION

TOWN: BRIDGEWATER,

RANSMISSION LI

MILE NO: SHEET 9 OF 2

#### EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

- 1. THE SEDIMENT AND EROSION CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR THIS SITE. SEE SEDIMENT AND EROSION CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- 2. CONSTRUCTION ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE GENERAL NOTES, SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY THE OWNER, QUALIFIED PROFESSIONAL, AND APPROPRIATE REGULATORY AGENCY PRIOR TO IMPLEMENTATION.
- 3. THE EROSION AND SEDIMENTATION CONTROL MEASURES, CONSTRUCTION SEQUENCE AND PHASING IS THE MINIMUM RECOMMENDED. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ADDITIONAL MEASURES AND SEQUENCING AS REQUIRED BASED ON ACTUAL FIELD OPERATIONS AND CONDITIONS AND BE CONSISTENT WITH THE NEW HAMPSHIRE STORMWATER MANUAL. SIGNIFICANT ADDITIONS AND/OR MODIFICATIONS FROM THE PLANS SHALL BE SUBMITTED, REVIEWED AND APPROVED BY THE OWNER, QUALIFIED PROFESSIONAL AND APPLICABLE REGULATORY AGENCIES.
- 4. THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO HELP PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND ADJACENT WETLAND AREA FROM SEDIMENT LADEN SURFACE RUNOFF AND EROSION.
- 5. APPROPRIATE EROSION/SEDIMENT CONTROL MEASURES AS DESCRIBED HEREIN, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL CLEARING, DEMOLITION AND CONSTRUCTION ACTIVITY WITHIN THE APPROVED LIMITS OF DISTURBANCE. SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED. CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY AND STORM PIPE TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TRENCHING. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- 6. THE CONTRACTOR SHALL INSTALL ALL SPECIFIED EROSION/SEDIMENT CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION AND BE IN STRICT CONFORMANCE WITH THE STANDARDS BELOW. THE CONTRACTOR SHALL SUPPLY AND MAINTAIN THESE STANDARDS AND HAVE THEM AVAILABLE ONSITE FOR THE DURATION OF CONSTRUCTION. THE OWNER, AGENTS OF THE REGULATORY AGENCIES AND/OR QUALIFIED PROFESSIONAL SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.
  - A. EVERSOURCE BEST MANAGEMENT PRACTICES MANUAL (TO BE FURTHER DEVELOPED).
  - B. NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES STORMWATER MANUAL, DECEMBER 2008.
- 7. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- 8. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (STRAW BALES, SILT FENCE, JUTE MESH,RIP RAP ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.
- 9. STONE CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.
- 10. TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE STRAW BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN 2 MONTHS.
- 11. COMPLY WITH REQUIREMENTS OF THE EPA FOR NPDES AND RECORD KEEPING.
- 12. VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.50 INCHES OR GREATER BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT THE EROSION AND SEDIMENT CONTROL (E&S) BMPS ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. PROVIDE WRITTEN REPORTS IN ACCORDANCE WITH ANY APPLICABLE OWNER, QUALIFIED PROFESSIONAL, AND/OR REGULATORY AGENCY REQUIREMENTS.
- 13. STOCKPILES OF EARTH MATERIALS SHALL CONFORM TO SOIL STOCKPILE PRACTICES IN SECTION 4.1 OF THE NH DES STORMWATER MANUAL VOLUME 3.
- 14. DEWATERING SUMP PITS SHALL BE INSTALLED WHEN WATER COLLECTS DURING DURING EXCAVATION TO TRAP AND FILTER WATER FOR PUMPING INTO A SUITABLE DISCHARGE AREA. A PERFORATED VERTICAL STANDPIPE WRAPPED IN NON-WOVEN FILTER FABRIC IS PLACED IN THE CENTER OF THE PIT TO COLLECT FILTERED WATER WHERE IT IS THEN REMOVED FROM THE SUMP PIT IN AN AUTHORIZED MANNER. UNDER NO CIRCUMSTANCES SHALL DEWATERING DRAINAGE BE DISCHARGED INTO A SANITARY SEWER. CONSTRUCTION DEWATERING SHALL CONFORM TO CONSTRUCTION DEWATERING REQUIREMENTS OF THE NH DES STORMWATER MANUAL VOLUME 3 SECTION 4.2.
- 15. WATER SHALL BE USED FOR DUST CONTROL IN APPROPRIATE AREAS.

- 16. ALL REGULATORY AGENCY PERMITS REQUIRED FOR THE SITE SHALL BE OBTAINED PRIOR TO SITE WORK COMMENCES.
- 17. ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- 18. E&S BMPS SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- 19. MAXIMUM SLOPES SHALL NOT EXCEED 3-FT HORIZONTAL TO 1-FT VERTICAL (3:1), UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL VERIFY SLOPE STABILITY OF ALL SLOPES PRIOR TO CONSTRUCTION. UNSTABLE SLOPES SHALL BE LAID BACK (FLATTENED) UNTIL STABLE OR PROVIDE REINFORCING TO ACHIEVE STABILIZATION. SLOPE BENCHES SHALL BE IN ACCORDANCE WITH THE NHDES STORMWATER MANUAL.
- 20. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY HIS WORK AT ALL TIMES.
- 21. TEMPORARY AND PERMANENT SEEDING SHALL SHALL BE IN ACCORDANCE WITH THE PLANTING PLAN, NH DES STORMWATER MANUAL VOLUME 3, AND NH DOT STANDARD SPECIFICATIONS SECTION 644.

#### **ALTERATION OF TERRAIN STANDARD NOTES:**

- 1. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 2. PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AS NECESSARY PRIOR TO FURTHER EARTH MOVING OPERATIONS. PREVENTION OF EROSION AND SEDIMENT TRANSPORTATION ISSUES WILL BE FACILITATED BY THE PROMPT EMPLOYMENT OF EFFECTIVE TEMPORARY AND PERMANENT CONTROL DEVICES, AS CONDITIONS WARRANT. ADDITIONAL CONTROL DEVICES THAT ARE DETERMINED NECESSARY, NOT OUTLINED HEREIN, MAY BE INSTALLED BY THE OWNER OR OPERATOR.
- 3. PONDS AND SWALES SHALL BE INSTALLED EARLY ON IN THE CONSTRUCTION SEQUENCE PRIOR TO ROUGH GRADING THE SITE AND OTHER EARTH MOVING ACTIVITIES.
- 4. DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM
- 5. ROADWAYS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 6. CUT AND FILL SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENTATION CONTROL MEASURES
  WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL DURING THE LIFE OF THE
  PROJECT. REMOVE TRAPPED SEDIMENT FROM COLLECTOR DEVICES AS NEEDED.
- 8. STABLE IS DEFINED AS:
  - A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED,
  - B. A MINIMUM OF 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED,
  - C. A MINIMUM 3-INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED.
  - D. OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 9. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
- 10. TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS ARE AS NOTED IN THE "VEGETATION MEASURES" SECTION ON THIS SHEET.
- 11. STANDARD WINTER NOTES:
  - A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
  - 3. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85
    PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE
    DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY
    WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE
    DESIGN FLOW CONDITIONS.
  - C. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3.

#### WINTER CONSTRUCTION NOTES:

- 1. WINTER EXCAVATION AND EARTHWORK SHALL BE COMPLETED AS SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- AN AREA WITHIN 100 FEET OF A PROTECTED NATURAL RESOURCE SHALL BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIER.

- 3. TEMPORARY MULCH SHALL BE APPLIED WITHIN 7 DAYS OF SOIL EXPOSURE OR PRIOR TO ANY STORM EVENT, BUT AFTER EVERY WORKDAY IN AREAS WITHIN 100 FEET FROM A PROTECTED NATURAL RESOURCE.
- 4. AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE SHALL BE PERMANENTLY MULCHED THE SAME DAY.
- IN THE EVENT OF A SNOWFALL GREATER THAN 1 INCH (FRESH OR CUMULATIVE).
   THE SNOW SHALL BE REMOVED FROM THE AREAS DUE TO BE SEEDED AND MULCHED.
- 6. LOAM SHALL BE FREE OF FROZEN CLUMPS BEFORE IT IS APPLIED.
- A DITCH THAT WILL BE CONSTRUCTED DURING THE WINTER MUST BE STABILIZED WITH RIPRAP.
- 8. PERMANENT STABILIZATION CONSISTS OF AT LEAST 85% VEGETATION, PAVEMENT/GRAVEL BASE OR RIPRAP.
- 9. DO NOT EXPOSE SLOPES OR LEAVE SLOPES EXPOSED OVER THE WINTER OR FOR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY PROTECTED WITH MULCH AND EROSION CONTROLS.
- 10. APPLY STRAW MULCH AT TWICE THE STANDARD RATE (150 LBS. PER 1,000 SF). THE MULCH MUST BE THICK ENOUGH SUCH THAT THE GROUND SURFACE WILL NOT BE VISIBLE AND MUST BE ANCHORED.
- 11. USE MULCH AND MULCH NETTING OR AN EROSION CONTROL MULCH BLANKET OR MIX FOR ALL SLOPES GREATER THAN 8% OR OTHER AREAS EXPOSED TO DIRECT WIND
- 12. INSTALL AN EROSION CONTROL BLANKET IN ALL DRAINAGE WAYS (BOTTOM AND SIDES) WITH A SLOPE GREATER THAN 3%.
- 13. SEE THE VEGETATION MEASURES FOR MORE INFORMATION ON SEEDING DATES AND TYPES.

#### CONSTRUCTION SEQUENCE:

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED (COORDINATE ALL SITE ACTIVITIES AND CONSTRUCTION SEQUENCE WITH THAT OF THE STATION ELECTRICAL EQUIPMENT, OVERHEAD AND UNDERGROUND TRANSMISSION LINES, AND OTHER STATION RELATED CONSTRUCTION):

- CONTACT THE OWNER, QUALIFIED PROFESSIONAL, AND REGULATORY AGENT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT SITE.
- 2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE REGULATORY AGENT PRIOR TO THE START OF WORK ON THE SITE. INSTALL PERIMETER EROSION/SEDIMENT CONTROL MEASURES.
- 3. CONSTRUCT STONE CONSTRUCTION ENTRANCES/EXITS AND INSTALL INLET PROTECTION FOR CATCH BASINS OR INSTALL SILT SACKS ON CATCH BASIN INLETS LOCATED IN OFF-SITE ROADS. INSTALL SILT FENCE AND OTHER EROSION CONTROL DEVICES INDICATED ON THESE PLANS AT PERIMETER OF PROPOSED SITE DISTURBANCE AND INSTALL ALL EROSION/SEDIMENT CONTROL MEASURES AND TREE PROTECTION INDICATED ON THESE PLANS. INSTALL SEDIMENT BASINS AND SEDIMENT TRAPS IF REQUIRED AT LOW AREAS OF SITE OR AS ORDERED BY THE QUALIFIED PROFESSIONAL OR AS SHOWN ON THESE PLANS.
- 4. CLEAR AND GRUB SITE. STOCKPILE CHIPS. STOCKPILE TOPSOIL. INSTALL EROSION CONTROLS AT STOCKPILES.
- 5. COMMENCE INSTALLATION OF STORM DRAINAGE SYSTEM
- 6. COMMENCE EARTHWORK. CONSTRUCT FILL SLOPE. INSTALL ADDITIONAL EROSION CONTROLS AS WORK PROGRESSES AND CONTINUE STORM DRAINAGE SYSTEM CONSTRUCTION, TOPSOIL AND SEED SLOPES WHICH HAVE ACHIEVED FINAL SITE GRADING.
- 7. CONSTRUCTION STAKING OF ALL FOUNDATION CORNERS, UTILITIES, ACCESS DRIVES, FENCES AND OTHER SITE APPURTENANCES.
- 8. ROUGH GRADING AND FILLING OF SUBGRADES AND SLOPES.
- 9. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE CONTRACTOR MUST PROVIDE EVIDENCE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE APPROPRIATE REGULATORY AGENCIES AND WHICH IS BEING IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL ALSO NOTIFY THE APPROPRIATE REGULATORY AGENCIES IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.
- CONTINUE INSTALLATION OF STORM DRAINAGE AS SUBGRADE ELEVATIONS ARE ACHIEVED.
- 11. CONSTRUCT PAD SUBGRADE PREPARATION AND BEGIN FOUNDATION CONSTRUCTION.
- 12. THROUGHOUT CONSTRUCTION SEQUENCE, REMOVE SEDIMENT FROM BEHIND SILT FENCES, STRAW BALES AND OTHER EROSION CONTROL DEVICES, AND FROM SEDIMENT TRAPS AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SIGNIFICANT RAINFALL OF 0.50 INCH OR GREATER). INSPECTION OF EROSION/SEDIMENT CONTROL MEASURES SHALL BE ON A WEEKLY BASIS AND AFTER EACH RAINFALL OF 0.50 INCHES OR GREATER. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.

- COMPLETE GRADING TO SUBGRADES AND COMPLETE CONSTRUCTION OF FOUNDATIONS.
- 14. CONSTRUCT CURBS, PAVEMENT STRUCTURE AND SIDEWALKS
- 15. CONDUCT FINE GRADING.
- 16. PAVING OF ACCESS ROAD
- 17. CONSTRUCT OFF-SITE ROADWAY IMPROVEMENTS, AS NECESSARY
- 18. INSTALL YARD SURFACE STONE. FINAL FINE GRADING OF SLOPE AND NON-PAVED AREAS.
- 19. PLACE 4" TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE, SEED, AND MULCH.
- 20. LANDSCAPE INTERIOR NON-PAVED AREAS, NON-GRAVELED AREAS, AND PERIMETER AREAS.
- 21. INSTALL ON-SITE SIGNAGE AND PAVEMENT MARKINGS
- 22. CLEAN STORM DRAINAGE PIPE STRUCTURES, DETENTION SYSTEMS AND WATER QUALITY DEVICES OF DEBRIS AND SEDIMENT.
- 23. UPON DIRECTION OF THE OWNER, QUALIFIED PROFESSIONAL, AND REGULATORY AGENT, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE.

#### **ROUGH GRADING OPERATIONS**

- 1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.
- 2. ALL STOCKPILED TOPSOIL SHALL BE SEEDED, APPLY MULCH OR STRAW, AND ENCLOSED BY A SILTATION FENCE.

#### FILLING OPERATIONS

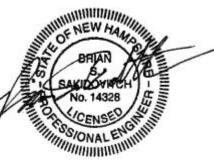
1. PRIOR TO FILLING, ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE QUALIFIED PROFESSIONAL AND AS SHOWN ON THIS PLAN.

## PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND FOUNDATION CONSTRUCTION OPERATIONS

1. SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF EXCAVATIONS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES. STRAW BALES MAY BE USED IF SHOWN ON THE EROSION CONTROL PLANS OR IF DIRECTED BY THE QUALIFIED PROFESSIONAL.

#### FINAL GRADING AND PAVING OPERATIONS

- 1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON EROSION CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.
- 2. NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDED, AND ANY ROAD OR DRIVEWAY SHOULDER AND BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- 3. PAVEMENT SUB-BASE AND BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.
- 4. AFTER CONSTRUCTION OF PAVEMENT, TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE OWNER AND THE APPLICABLE REGULATORY AGENCIES.
- 5. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 85% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.
- MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS WHEN AUTHORIZED BY LOCAL GOVERNING AUTHORITY. FILE NOT (NOTICE OF TERMINATION) WITH GOVERNING AUTHORITY RESPONSIBLE FOR REGULATING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES PER NPDES.



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TRANSITION STATION #6

TRANSITION STATION #6

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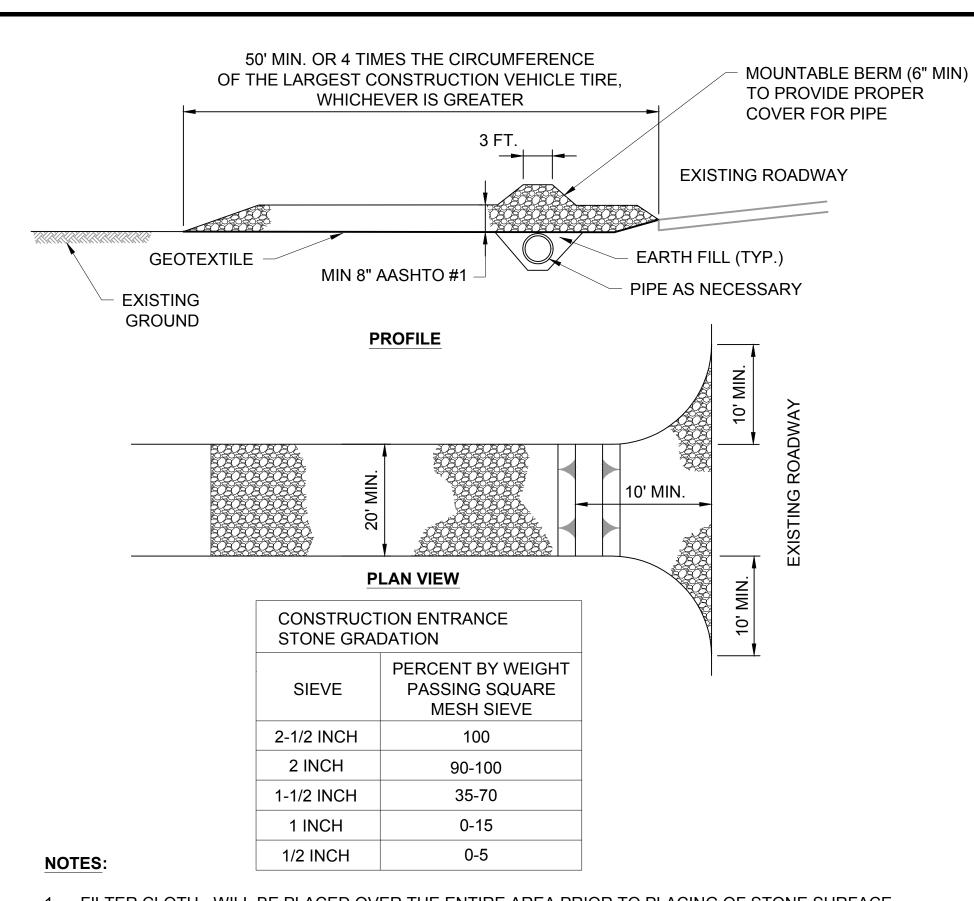
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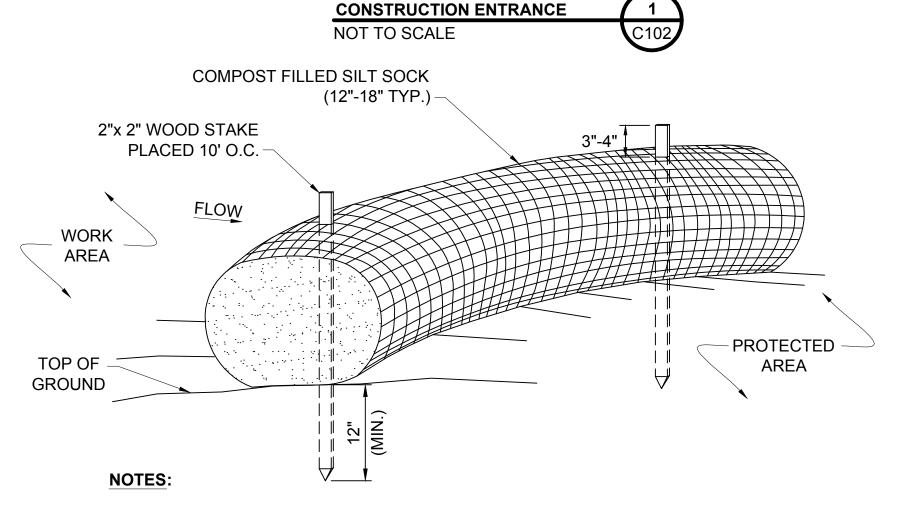
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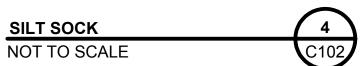


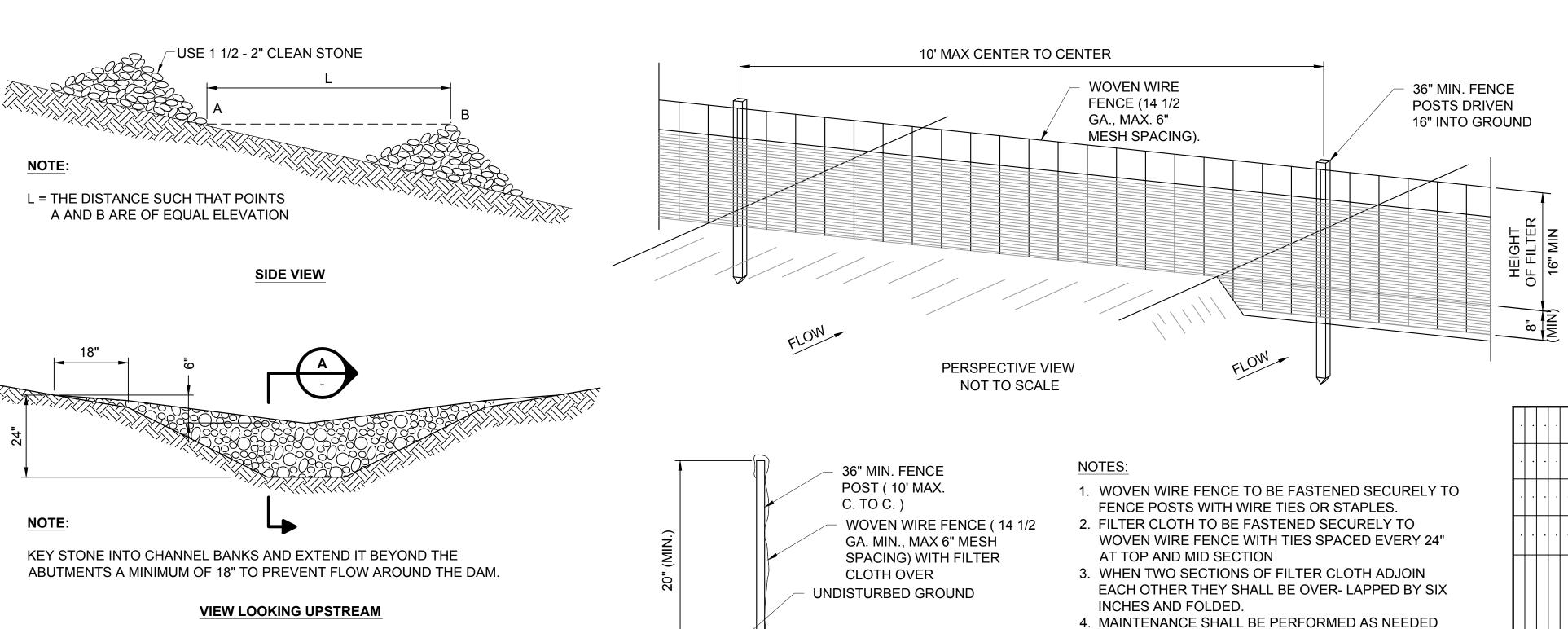
- 1. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE SURFACE.
- 2. WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 3. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 4. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 5. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN STORM EVENT.



**STABILIZED** 

- 1. SILT SOCK SHALL BE FILTREXXTM SILTSOXXTM OR APPROVED EQUIVALENT.
- 2. SEE SPECIFICATIONS FOR SOCK SIZE AND COMPOST FILL REQUIREMENTS.
- 3. SILT SOCK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS, AND REPAIR OR REPLACEMENT SHALL BE PERFORMED AS NEEDED.
- 4. COMPOST MATERIAL SHALL BE DISPERSED ON SITE, AS DETERMINED BY THE QUALIFIED PROFESSIONAL.





FLOW**SECTION A** 

> **STONE CHECK DAM** NOT TO SCALE

FLOW EMBED FILTER CLOTH MIN. 6" INTO GROUND

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

POSTS: STEEL EITHER "T" OR "U"

TYPE OR 2" HARDWOOD.

FENCE: WOVEN WIRE 14 1/2 GA. 6" MAX. MESH OPENING.

FILTER CLOTH: FILTER X, MIRAFI 100X,

STABILINKA T140N OR

APPROVED EQUAL.

PREFABRICATED GEOFAB, ENVIROFENCE,

UNIT: OR APPROVED EQUAL.

**SILT FENCE** 

## AND OVERLAPPED (4 IN. MIN.) ROLL IN 6 IN. x 6 IN. ANCHOR TRENCH, STAPLE, BACKFILL AND COMPACT SOIL STARTING AT TOP OF SLOPE, ROLL BLANKETS IN DIRECTION OF WATER FLOW BERM PREPARE SEED BED (INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED) PRIOR TO BLANKET INSTALLATION

**INSTALL BEGINNING OF** 

THE BLANKET SHOULD NOT BE STRETCHED; IT MUST MAINTAIN GOOD SOIL CONTACT

**BLANKET EDGES STAPLED** 

OVERLAP BLANKET ENDS 6 IN. MIN. WITH THE UPSLOPE BLANKED OVERLYING THE DOWNSLOPE BLANKET (SHINGLE STYLE). STAPLE SECURELY.

REFER TO MANUF. RECOMMENDED STAPLING PATTERN FOR STEEPNESS AND LENGTH OF SLOPE **BEING BLANKETED** 

NOT TO SCALE

**EROSION CONTROL BLANKET** 

### NOTES:

- 1. SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
- PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
- 3. SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
- 4. BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
- THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- 6. BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.



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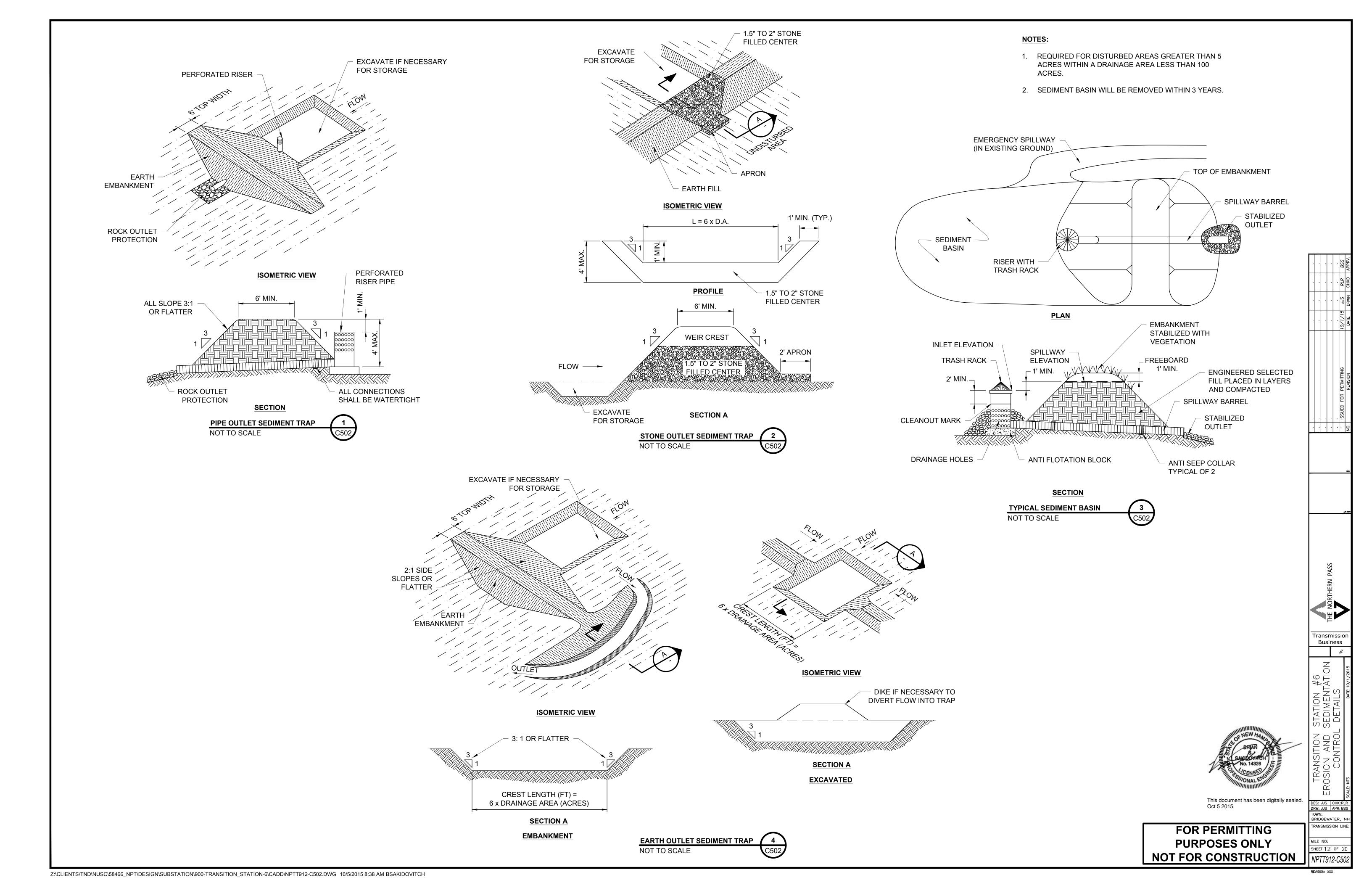
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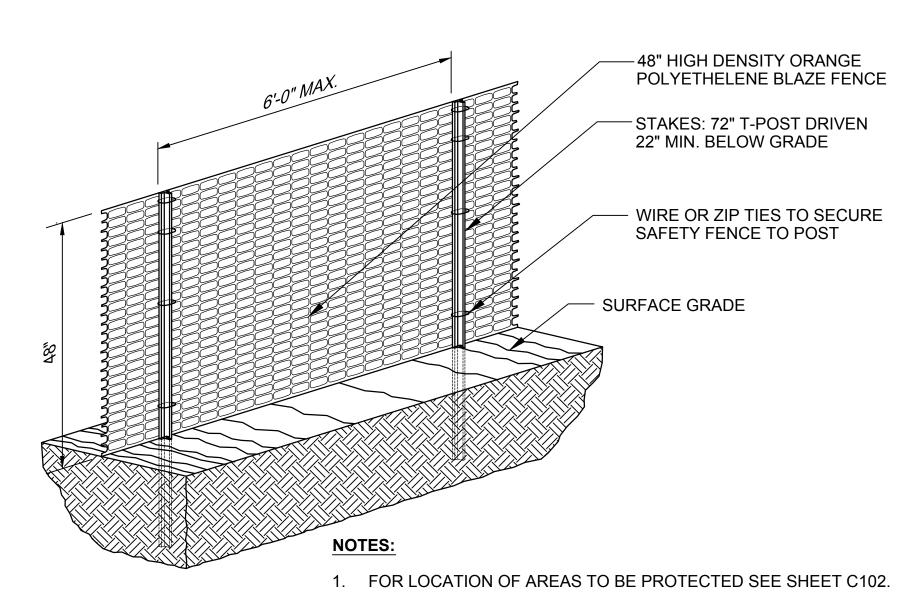
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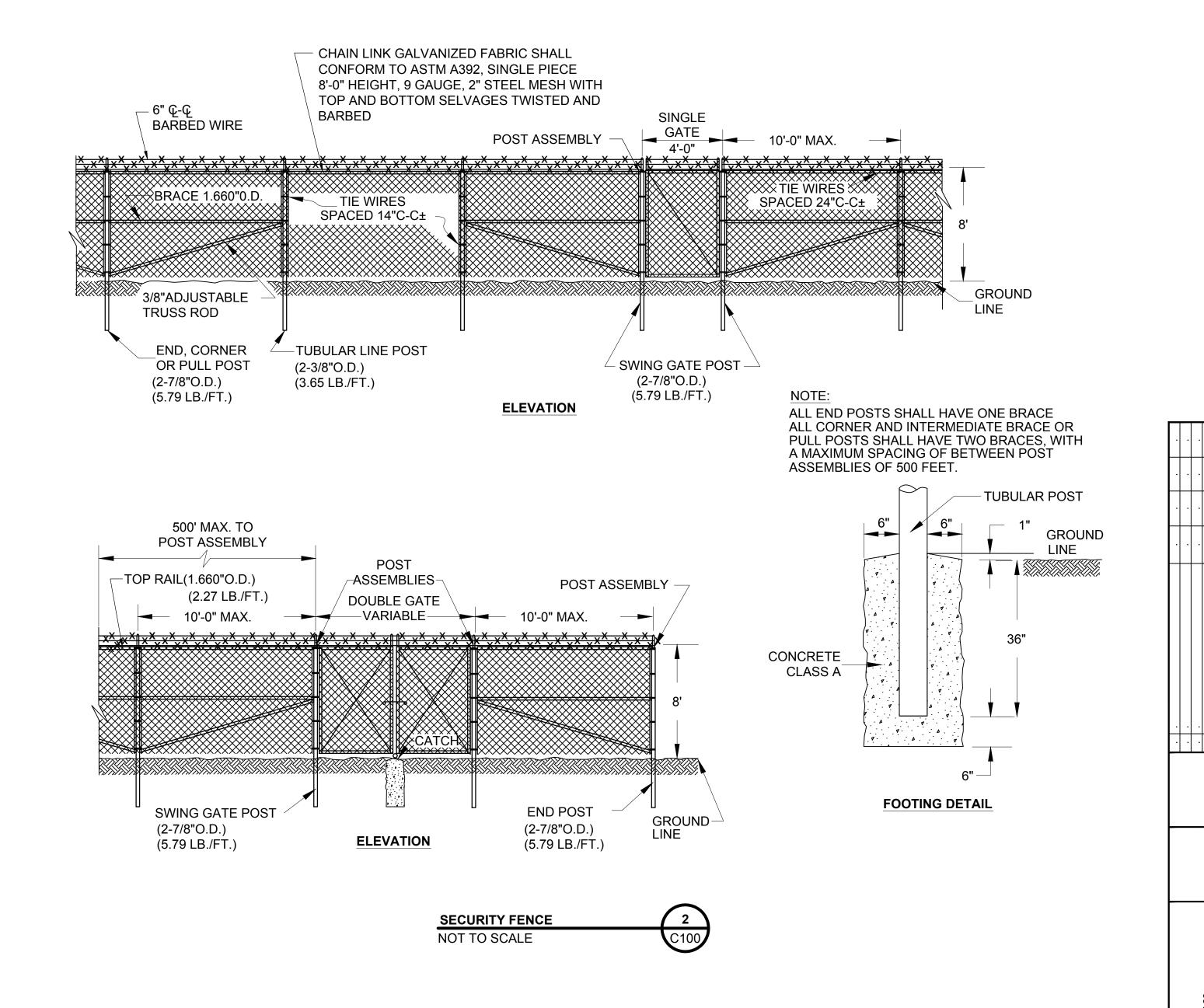
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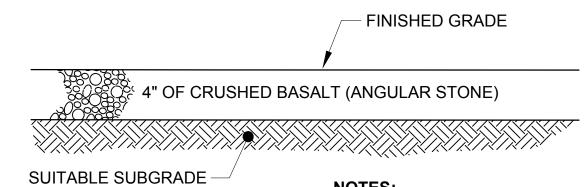




- 2. SAFETY FENCE SHALL BE FASTENED SECURELY TO THE
- T-POSTS.
- 3. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.







		N AND ACCESS ROAD
SU	JRFACE S	TONE GRADATION
		DEDCENT DV WEIGHT

SIEVE	PERCENT BY WEIGHT PASSING SQUARE MESH SIEVE
1-1/2 INCH	100
1 INCH	93-100
1/2 INCH	27-58
1/4 INCH	0-8

#### NOTES:

- 1. REMOVE ALL LOAM, CLAY, MUCK, STUMPS, AND OTHER IMPROPER ROAD FOUNDATION MATERIAL WITHIN 2' OF SUBGRADE. REPLACE WITH COMPACTED GRANULAR FILL MATERIAL ACCEPTABLE TO APPROVING AGENCY. COMPACTION TO BE AT LEAST 95% OF STANDARD PROCTOR.
- SUBSTATION SURFACE STONE SHALL EXTEND 5-FT OUTSIDE THE SUBSTATION PERIMETER FENCE.
- 3. GRAVEL ACCESS ROADS SHALL HAVE AT LEAST 8-INCHES OF PROCESSED AGGREGATE BASE.

SUBSTATION
GRAVEL SURFACE SECTION
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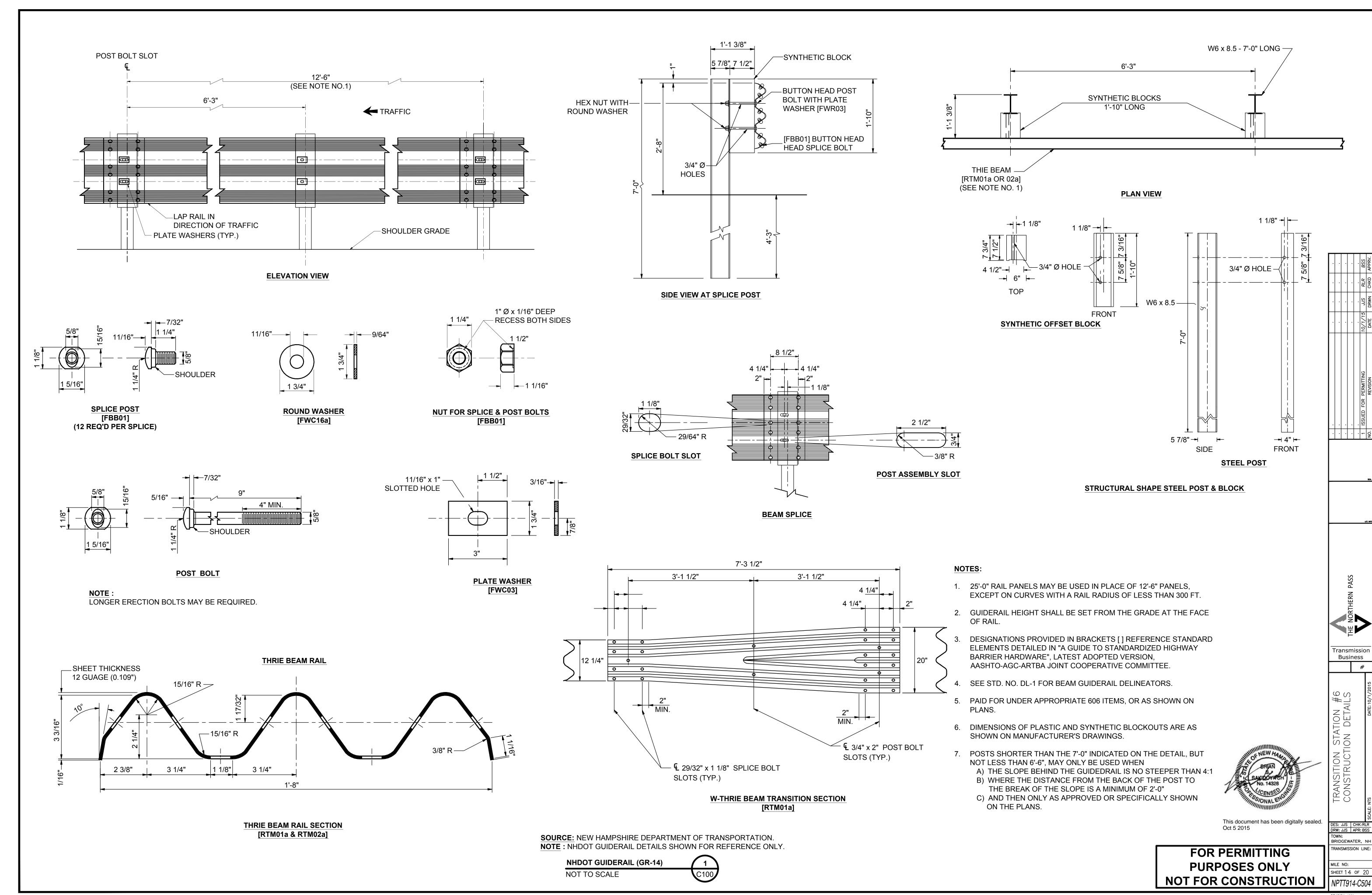
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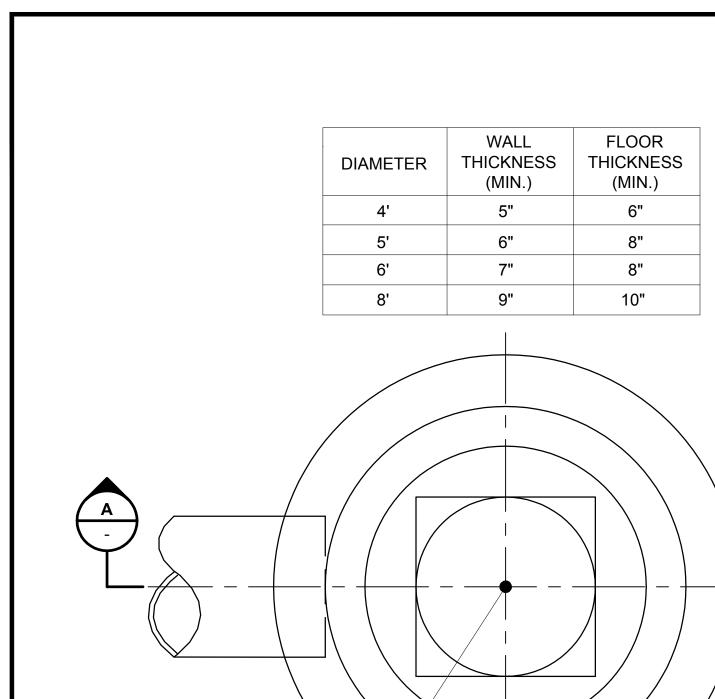
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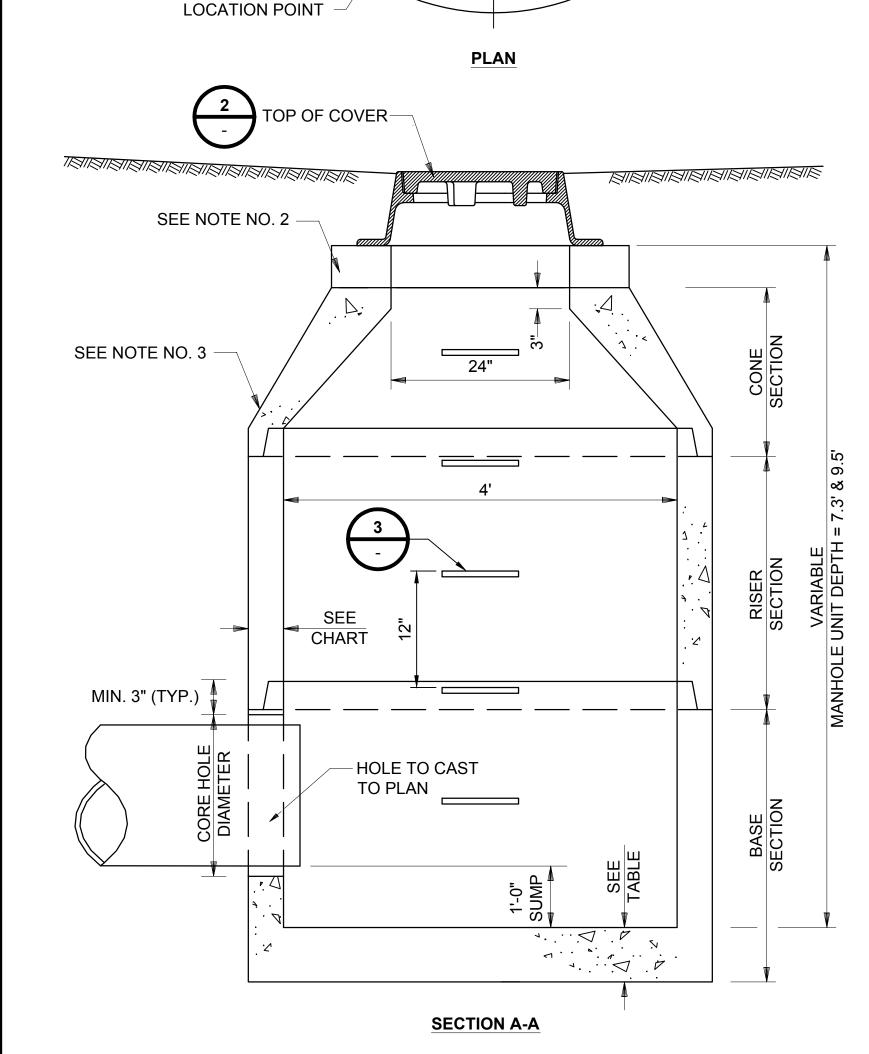
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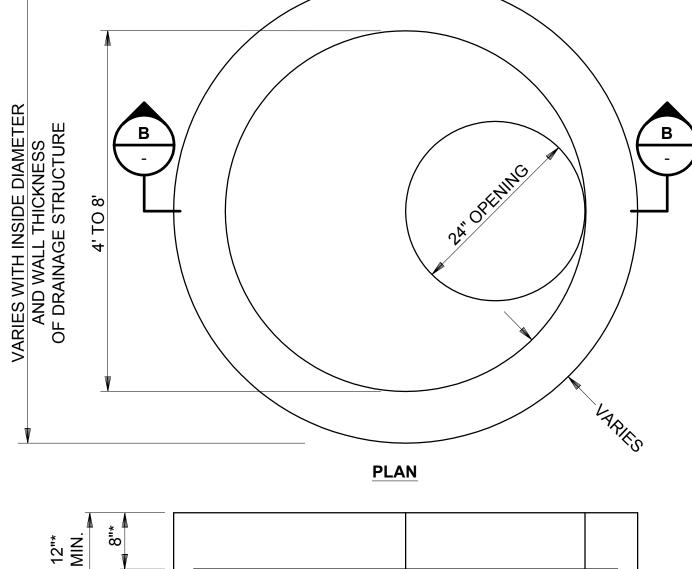


STRUCTURE

**INVERT AND** 



**CORE HOLE SIZE** PLASTIC PIPE SIZE CORE HOLE DIA. | CORE HOLE DIA. INCHES | FEET | INCHES | FEET **INCHES** 6 12 1.5 18 1.5 18 15 1.7 22 1.8 20 2.2 18 26 24 2.0 2.7 24 34 2.8 32 30 3.5 3.5 42 42 36 48 4.0 48 4.0 4.5 54 4.5 42 54 48 5.3 64 5.3 64 72 6.0 54 60 78 6.5



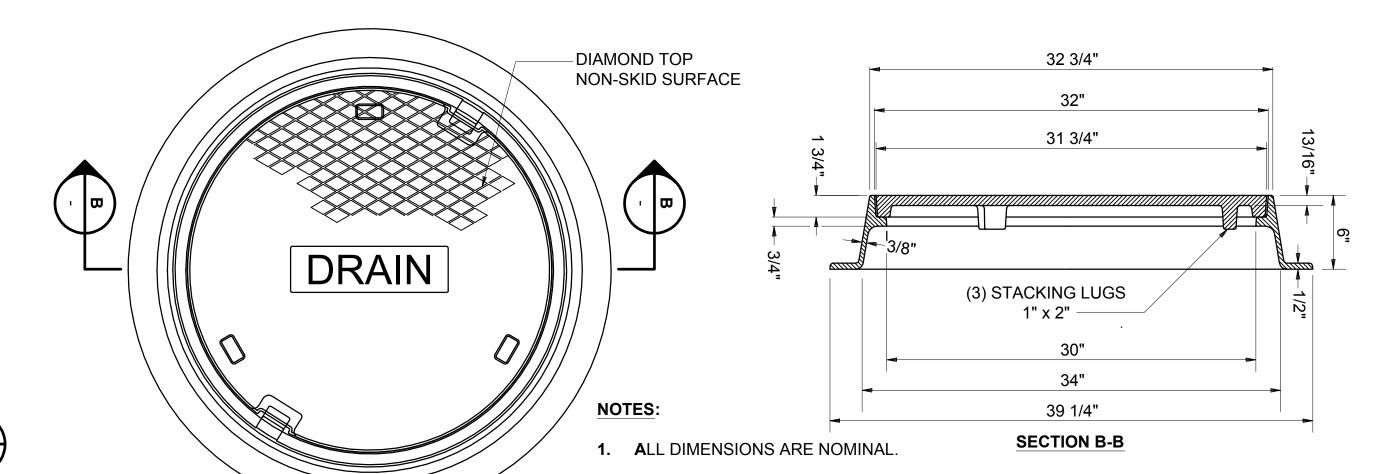


## GENERAL NOTES:

## FLAT SLAB TOP

**SECTION B-B** 

- 1. MANHOLES TO CONFORM TO NH DOT SECTION 604.1 REQUIREMENTS.
- 2. FITTING FRAME TO GRADE MAY BE DONE WITH PREFABRICATED ADJUSTMENT RINGS OR CLAY BRICKS (2 COURSES MAX.).
- 3. CONE SECTIONS MAY BE EITHER CONCENTRIC OR ECCENTRIC, OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
- 4. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
- 5. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
- 6. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
- 7. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.



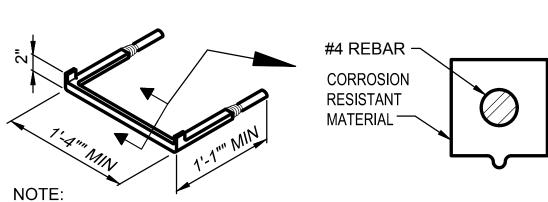
SOURCE: NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD CONSTRUCTION 2010.

2. LABEL TYPE OF MANHOLE WITH

3" HIGH LETTERS IN THE CENTER OF THE COVER.

MANHOLE FRAME AND COVER 2

NOT TO SCALE -

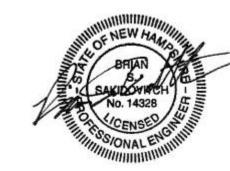


No. 4 REBAR ENCASED IN CORROSION RESISTANT RUBBER OR OTHER MATERIAL APPROVED BY THE OWNER'S REPRESENTATIVE.

MANHOLE STEP

NOT TO SCALE

-



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PRECAST CONCRETE MANHOLE 1
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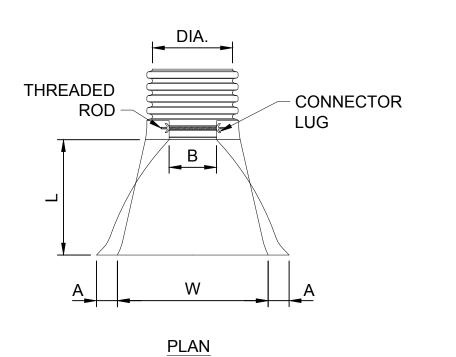
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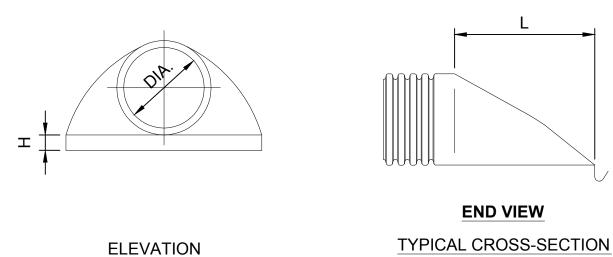
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W
29"
29"
35"
45"
63"
63"

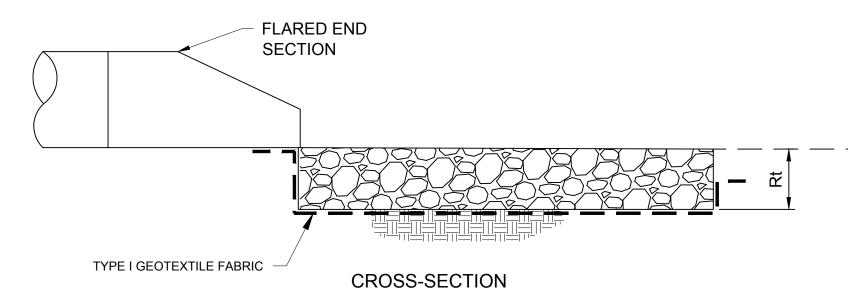


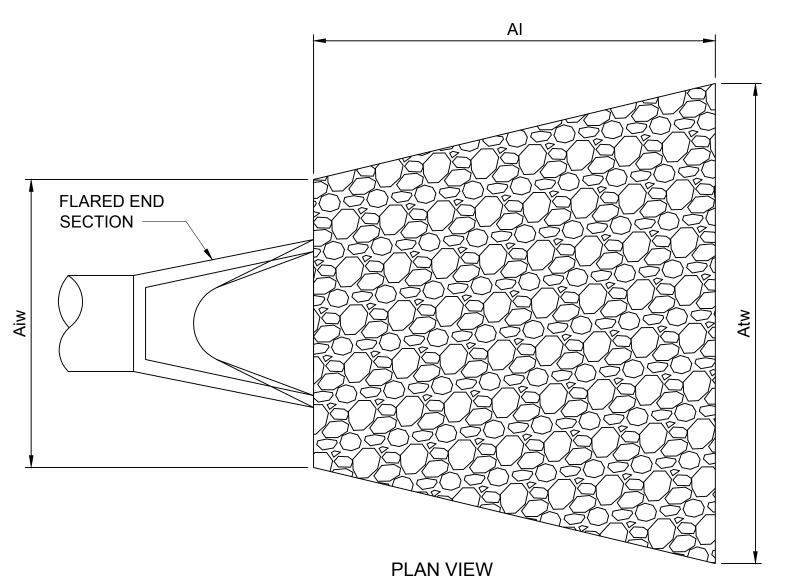
**END SECTION FOR HDPE PIPE** 

NOT TO SCALE

#### NOTES:

- FLARED END SECTION SHALL BE HIGH DENSITY POLYETHYLENE MEETING ASTM D3350 MINIMUM CELL CLASSIFICATION 213320C.
- 2. METAL THREADED FASTENING ROD SHALL BE STAINLESS STEEL.
- 3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS





#### NOTES:

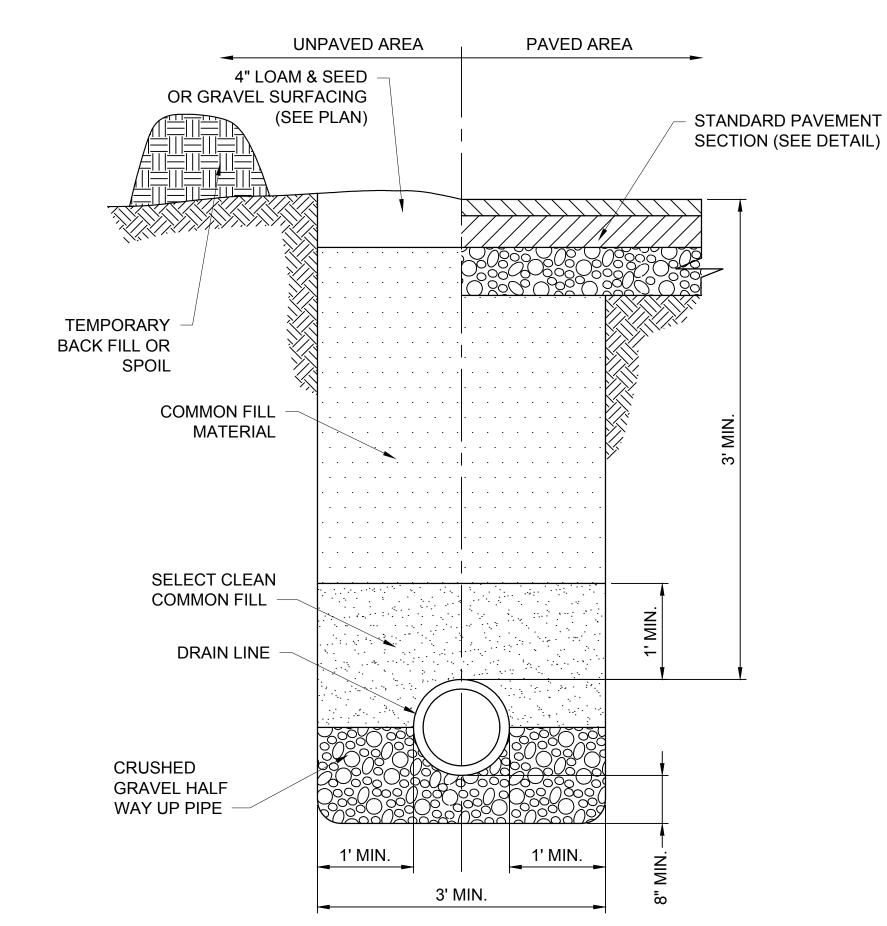
- THE SUBGRADE FOR GEOTEXTILE FABRIC AND RIP-RAP SHALL BE PREPARED TO THE LINES AND GRADES SHOWN.
- THE ROCK USED FOR RIP-RAP SHALL CONFORM TO NHDOT CLASS C STONE.
- 3. GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE ROCK RIP-RAP. DAMAGED AREAS IN THE FABRIC SHALL BE PREPARED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 12 INCHES.
- 4. STONE FOR THE RIP-RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

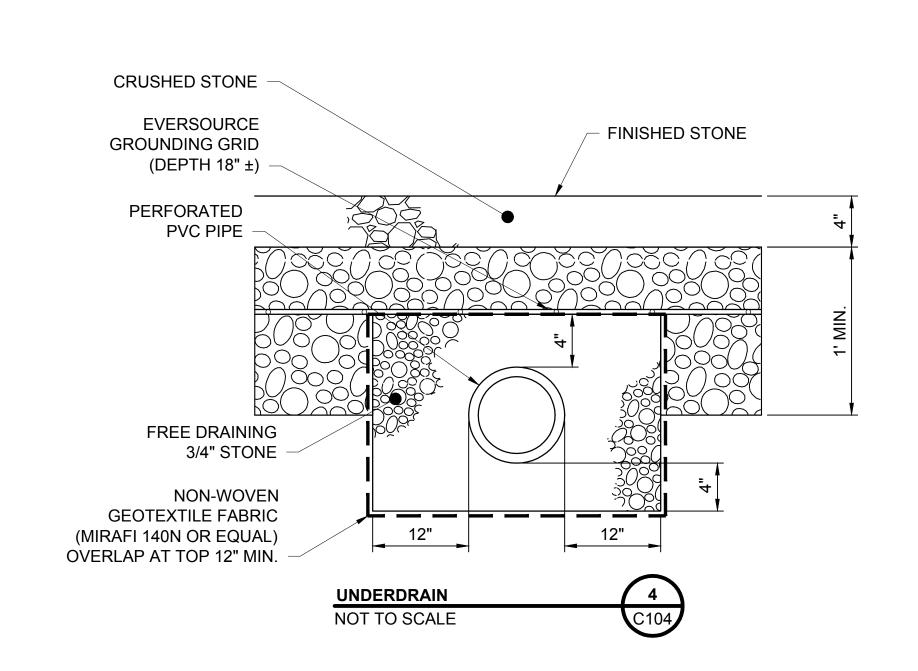
		RIP	RAP	APRON			
OUTLET NO.	PIPE DIA Pd (IN)	SIZE (D50)	THICK. Rt (IN)	LENGTH AI (FT)	INITIAL WIDTH Aiw (FT)	TERMINAL WIDTH Atw (FT)	
Α	15	6	18	15	3.5	19	
С	15	6	18	9	3.5	13	

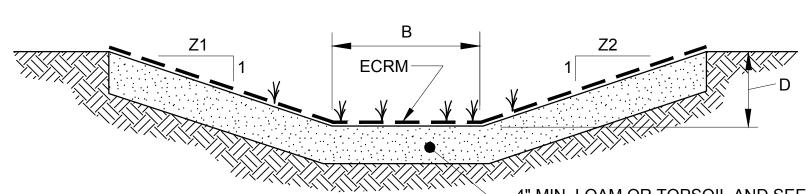
OUTLET PROTECTION

NOT TO SCALE

C104







4" MIN. LOAM OR TOPSOIL AND SEED WITH EROSION CONTROL AND REVEGETATION MAT (ECRM) (EXCELSIOR, JUTE, MIRIMAT, OR EQUAL) OR SOD

#### NOTES

- 1. CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL FINISH SURFACE GRADE.
- 2. INSTALL EROSION CONTROL BLANKET LINING TO TOP OF CHANNEL
- 3. INSTALL LINING PER MANUFACTURES SPECIFICATIONS AND RECOMMENDATIONS. SEED SLOPES PRIOR TO INSTALLATION PER MANUFACTURER RECOMMENDATIONS.
- 4. VEGETATED CHANNELS SHALL BE CONSTRUCTED FREE OF ROCKS, TREE ROOTS, STUMPS OR OTHER PROJECTIONS THAT WILL IMPEDE NORMAL CHANNEL FLOW AND/OR PREVENT GOOD LINING TO SOIL CONTACT. THE CHANNEL SHALL BE INITIALLY OVER-EXCAVATED TO ALLOW FOR THE PLACEMENT OF TOPSOIL.
- 5. ALL CHANNELS MUST BE KEPT FREE OF OBSTRUCTIONS SUCH AS FILL GROUND, FALLEN LEAVES AND WOODY DEBRIS, ACCUMULATED SEDIMENT, AND CONSTRUCTION MATERIALS/WASTES. CHANNELS SHOULD BE KEPT MOWED AND/OR FREE OF ALL WEEDY, BRUSHY OR WOODY GROWTH. ANY UNDERGROUND UTILITIES RUNNING ACROSS/THROUGH THE CHANNEL(S) SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL(S) REPAIRED AND STABILIZED PER THE CHANNEL CROSS-SECTION DETAIL. DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

CHANNEL	LENGTH (FT.)	В	D	SIDE SLOPE Z <sub>1</sub> Z <sub>2</sub>		LINING	STAPLE PATTERN	SLOPE (%)
А	238'	2'	2.0'	9	3	ECRM	-	0.5
В	78'	0'	2.0'	12	100	ECRM	-	0.5
О	140'	0'	2.0'	10	3	ECRM	-	0.46
D	183'	0'	1.7'	20	3	ECRM	-	0.31
E	100'	0'	2.0'	10	3	ECRM	-	2.12



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GRASS SWALE CROSS SECTION 5
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PIPE TRENCH

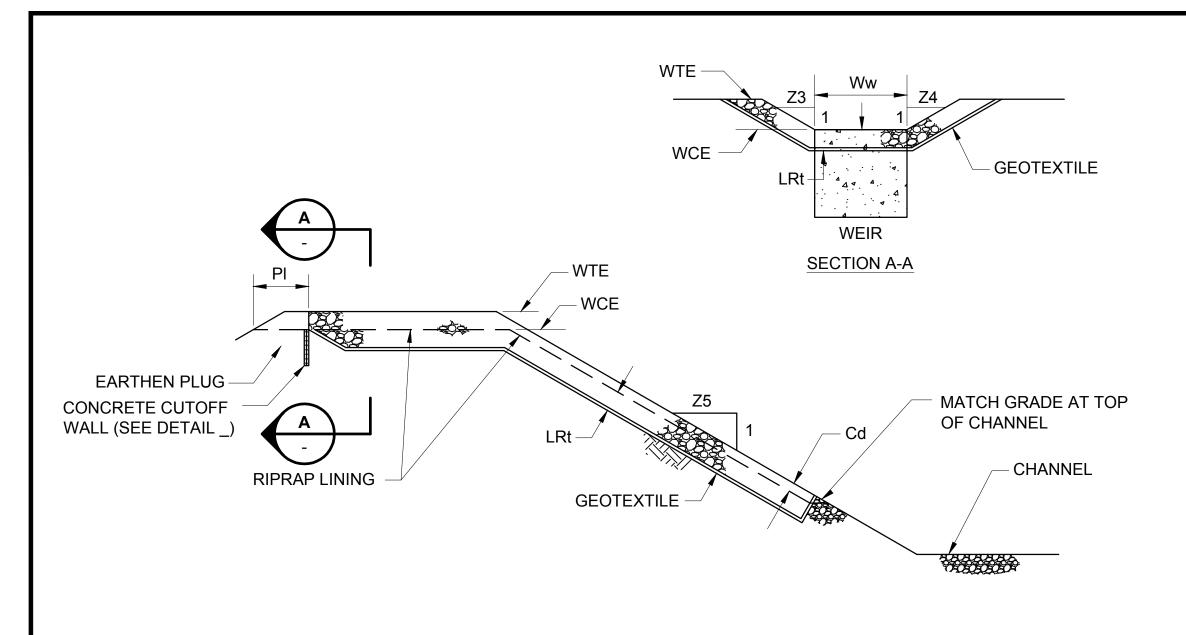
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HEET 16 OF 2

TOWN: BRIDGEWATER,

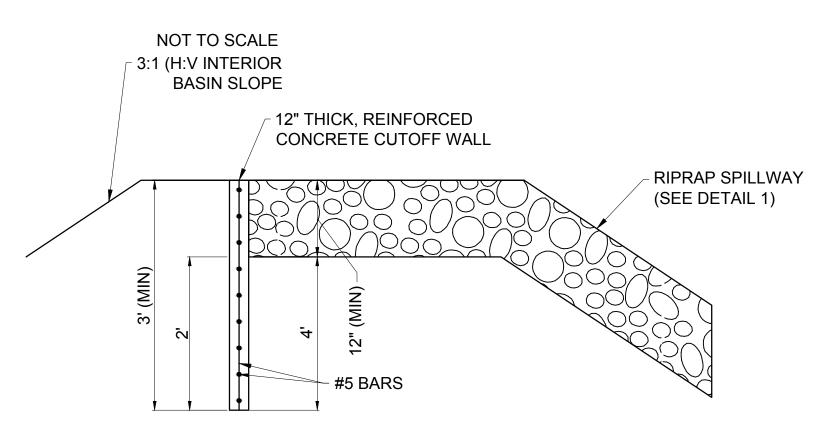
IILE NO:

RANSMISSION LIN

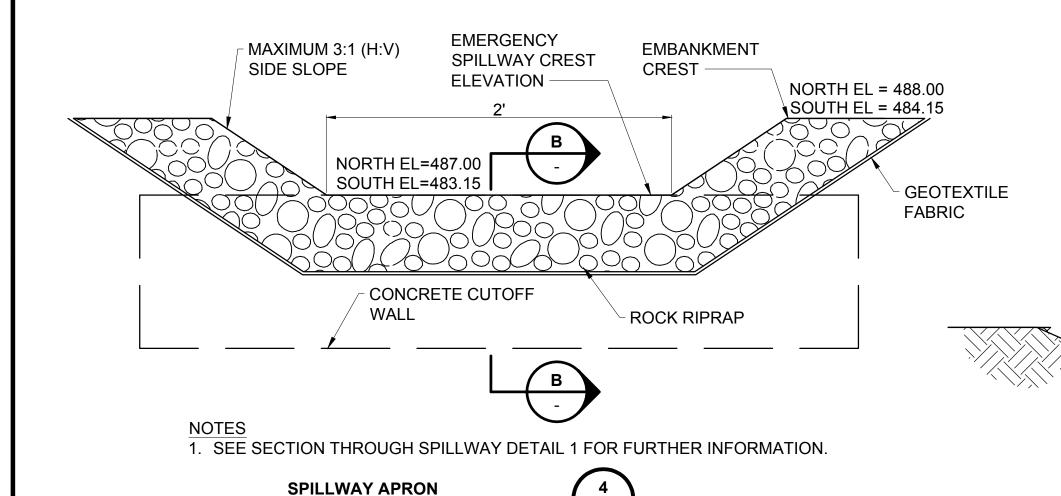


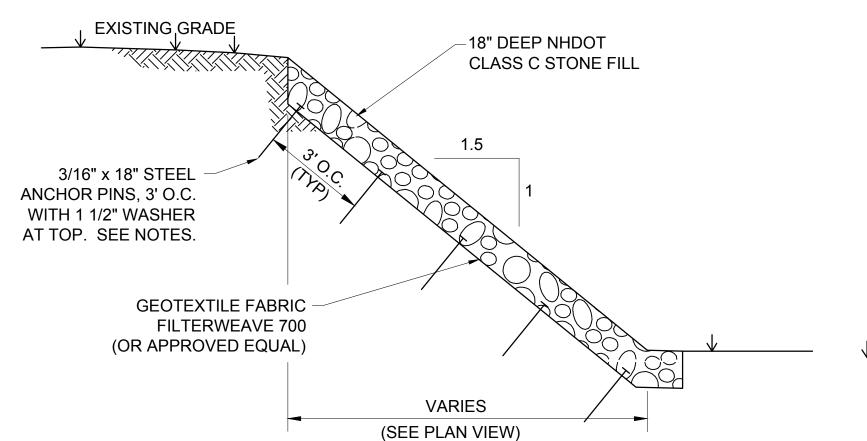
	WEIR							NG	CHANNEL	
BASIN	Z3 (FT)	Z4 (FT)	TOP ELEV WTE (FT)	CREST ELEV WCE (FT)	WIDTH Ww (FT)	PI (FT)	RIPRAP SIZE (R)	RIPRAP THICK. LRt (IN)	Z5 (FT)	DEPTH Cd (FT)
NORTH	3	3	488.00	487.00	2	5	12	36	3	0'
SOUTH	3	3	484.15	483.15	2	5	12	36	3	0'





**SECTION B-B** 





#### NOTES:

RIPRAP STONE

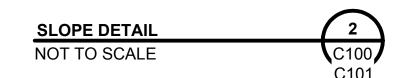
NORTH FOREBAY BOTTOM EL 481.00' **SOUTH FOREBAY** BOTTOM EL 478.65'

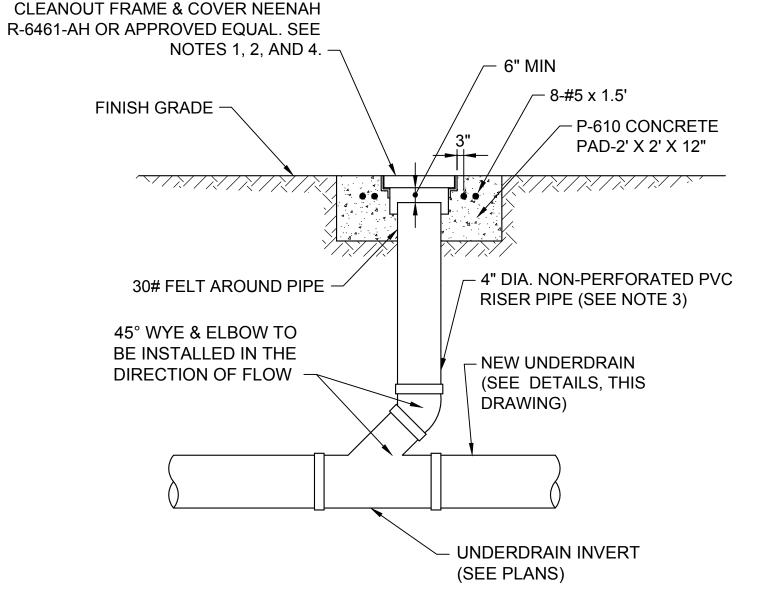
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**SEDIMENT FOREBAY DETAIL** 

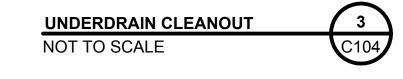
- 1. GEOTEXTILE PLACEMENT: THE GEOTEXTILE SHALL BE PLACED ON A SMOOTH GRADED SURFACE APPROVED BY THE ENGINEER. THE GEOTEXTILE SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT EXCESSIVELY STRETCH OR TEAR UPON PLACEMENT OF THE OVERLYING MATERIALS. CARE SHOULD BE TAKEN TO PLACE THE GEOTEXTILE IN INTIMATE CONTACT WITH THE SOIL SUCH THAT NO VOID SPACES EXIST BETWEEN THE UNDERLYING SOIL AND THE GEOTEXTILE. ANCHORING OF THE GEOTEXTILE SHALL BE ACCOMPLISHED THROUGH THE USE OF KEY TRENCHES OR APRONS AT THE CREST AND TOE OF SLOPE.
- 2. GEOTEXTILE SHEETS SHALL BE JOINED BY EITHER SEWING OR OVERLAPPING. ALL OVERLAPS AND SEAMS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. OVERLAPPED SHEETS SHALL HAVE A MINIMUM OVERLAP OF 18 IN. EXCEPT WHERE PLACED UNDERWATER WHERE THE OVERLAP SHALL BE A MINIMUM OF 3 FT. OVERLAPS SHALL BE CONSTRUCTED WITH THE UPSTREAM SHEET PLACED OVER THE DOWNSTREAM SHEET OR THE UPSLOPE SHEET PLACED OVER THE DOWNSLOPE SHEET. ALL OVERLAPS SHALL BE PINNED ON 3 FT. CENTERS TO HOLD THE OVERLAP IN PLACE DURING STONE PLACEMENT. PINS ARE RECOMMENDED TO BE 3/16 IN. DIAMETER, 18 IN. LONG STEEL PINS POINTED AT ONE END, AND FITTED WITH A 1.5 IN. DIAMETER WASHER AT THE OTHER.
- CARE SHALL BE TAKEN TO AVOID CONTAMINATION OF THE GEOTEXTILE DURING CONSTRUCTION. CONTAMINATED GEOTEXTILE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. DAMAGED GEOTEXTILE SHALL BE REMOVED OR REPAIRED AS DIRECTED BY THE ENGINEER AT NO COST TO THE OWNER A GEOTEXTILE PATCH MAY BE PLACED OVER DAMAGED AREAS IF APPROVED BY THE ENGINEER. THE PATCH SHALL EXTEND 3 FT. BEYOND THE PERIMETER OF THE TEAR OR DAMAGE.
- 4. GRAVEL AND RIP RAP: GRAVEL AND RIP RAP PLACEMENT SHALL BEGIN AT THE TOE AND PROCEED UP THE SLOPE. RIP RAP SHALL NOT BE DROPPED ONTO THE GEOTEXTILE FROM A HEIGHT OF MORE THAN 1 FT. GRAVEL SHALL NOT BE DROPPED ONTO THE GEOTEXTILE FROM A HEIGHT EXCEEDING 3 FT. ANY GEOTEXTILE DAMAGED DURING PLACEMENT OF RIP RAP OR GRAVEL SHALL BE REPLACED AS DIRECTED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE IN UNDERWATER APPLICATIONS, THE GEOTEXTILE AND REQUIRED THICKNESS OF RIP RAP SHALL BE PLACED THE SAME DAY.

NORTH BASIN BOTTOM EL 483.00' SOUTH BASIN BOTTOM EL 480.65'

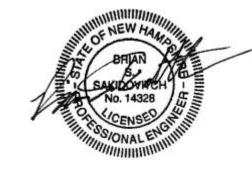




- 1. CLEANOUT FRAME AND COVER SHALL BE DUCTILE IRON DESIGNED TO HS-20 LOADINGS.
- 2. NO LOAD SHALL BE TRANSFERRED FROM CLEANOUT FRAME AND COVER TO 4" PVC UNDERDRAIN CLEANOUT OR COLLECTION STRUCTURE
- 3. STANDARD MANUFACTURER FITTINGS SHALL BE USED TO CONNECT VERTICAL UNDERDRAINS TO PVC UNDERDRAINS AND OUTLET PIPES.
- 4. ALL UNDERDRAIN CLEANOUT AND COLLECTION STRUCTURE COVERS SHALL BE BOLT DOWN TYPE.
- 5. INVERTS FROM OPPOSITE DIRECTIONS MAY NOT BE AT THE SAME ELEVATIONS AS SHOWN IN DETAIL REFER TO THE PLANS FOR INVERT ELEVATIONS.







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RIDGEWATER, RANSMISSION LI

IILE NO: HEET 17 OF 2

